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OM protein - protein search, using sw model

Run on: July 27, 2005, 01:21:45 ; Search time 35.3692 Seconds  
(without alignments)  
384.932 Million cell updates/sec

Title: US-10-792-311-1

Perfect score: 166  
Sequence: 1 AKKYAKKEKAAYKEAKAKAAEAAYEA 35

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.\*  
1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
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19: /cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep.\*  
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21: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*  
22: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	166	100.0	35	9	US-09-816-989A-1
2	166	100.0	35	17	US-10-792-311-1
3	108	65.1	45	9	US-09-816-989A-2
4	108	65.1	45	17	US-10-792-311-2
5	108	65.1	86	9	US-09-816-989A-6
6	108	65.1	86	17	US-10-792-311-6
7	105.5	63.6	66	9	US-09-816-989A-4
8	105.5	63.6	66	17	US-10-792-311-4
9	105	63.3	109	9	US-09-816-989A-7
10	105	63.3	109	17	US-10-792-311-7
11	104.5	63.0	56	9	US-09-816-989A-3

12	104.5	63.0	56	17	US-10-792-311-3	Sequence 3, Appli
13	104.5	63.0	77	9	US-09-816-989A-5	Sequence 5, Appli
14	104.5	63.0	77	17	US-10-792-311-5	Sequence 5, Appli
15	86.5	52.1	427	17	US-10-741-849-7226	Sequence 7226, Ap
16	82	49.4	157	15	US-10-282-122A-53988	Sequence 53988, A
17	81	48.8	372	15	US-10-282-122A-68109	Sequence 68109, A
18	76	45.8	347	14	US-10-127-032-120	Sequence 120, App
19	76	45.8	347	14	US-10-282-122A-66237	Sequence 66237, A
20	74	44.6	372	10	US-09-820-843A-8	Sequence 8, Appli
21	74	44.6	372	16	US-10-467-421-16	Sequence 16, Appli
22	72	43.4	80	14	US-10-177-725-13	Sequence 13, Appli
23	72	43.4	80	14	US-10-177-725-14	Sequence 14, Appli
24	72	43.4	80	14	US-10-177-725-63	Sequence 63, Appli
25	72	43.4	80	14	US-10-177-725-64	Sequence 64, Appli
26	72	43.4	80	15	US-10-393-449-13	Sequence 13, Appli
27	72	43.4	80	15	US-10-393-449-14	Sequence 14, Appli
28	72	43.4	80	15	US-10-393-449-63	Sequence 63, Appli
29	72	43.4	80	15	US-10-393-449-64	Sequence 64, Appli
30	72	43.4	85	14	US-10-177-725-15	Sequence 15, Appli
31	72	43.4	85	14	US-10-177-725-65	Sequence 65, Appli
32	72	43.4	85	15	US-10-393-449-15	Sequence 15, Appli
33	72	43.4	85	15	US-10-393-449-65	Sequence 65, Appli
34	72	43.4	329	15	US-10-282-122A-67699	Sequence 67699, A
35	71	42.8	336	15	US-10-282-122A-69962	Sequence 69962, A
36	70.5	42.5	189	16	US-10-767-701-60774	Sequence 60774, A
37	70	42.2	1130	15	US-10-369-493-6751	Sequence 6751, Ap
38	69.5	41.9	165	9	US-10-296-115-1023	Sequence 1023, Ap
39	69.5	41.9	165	9	US-09-738-625-5751	Sequence 5751, Ap
40	69.5	41.9	421	15	US-10-282-122A-56483	Sequence 56483, A
41	67	40.4	258	14	US-10-156-761-9957	Sequence 9957, Ap
42	66.5	40.1	79	14	US-10-177-725-20	Sequence 20, Appli
43	66.5	40.1	79	15	US-10-393-449-20	Sequence 20, Appli
44	66.5	40.1	582	9	US-09-919-497-100	Sequence 100, App
45	66	39.8	120	16	US-10-767-701-45061	Sequence 45061, A

ALIGNMENTS

RESULT 1  
US-09-816-989A-1  
Sequence 1, Application US/09816989A  
Patent No. US20020115103A1  
GENERAL INFORMATION:  
APPLICANT: Gad, Alexander  
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKS  
FILE REFERENCE: 2609/60807-A-PCT-US  
CURRENT APPLICATION NUMBER: US/09/816, 989A  
CURRENT FILING DATE: 2001-03-23  
PRIOR APPLICATION NUMBER: 60/101, 693  
PRIOR FILING DATE: 1998-09-25  
PRIOR APPLICATION NUMBER: PCT/US99/22402  
PRIOR FILING DATE: 1999-09-24  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 1  
LENGTH: 35  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-1  
Query Match 100.0%; Score 166; DB 9; Length 35;  
Best local Similarity 100.0%; Pred. No. 2e-11;  
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AKKYAKKEKAAYKEAKAKAAEAAYEA 35  
DB 1 AKKYAKKEKAAYKEAKAKAAEAAYEA 35

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RESULT 2
US-10-792-311-1
; Sequence 1, Application US/10792311
; Publication No. US20050038233A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/10/792,311
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/816,989
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-1

Query Match      100.0%; Score 166; DB 17; Length 35;
Best Local Similarity 100.0%; Pred. No. 2e-11;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 35
Db      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 35

RESULT 3
US-09-816-989A-2
; Sequence 2, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-2

Query Match      65.1%; Score 108; DB 9; Length 45;
Best Local Similarity 64.4%; Pred. No. 5.7e-05;
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

Qy      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 35
Db      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 45
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RESULT 4
US-10-792-311-2
; Sequence 2, Application US/10792311
; Publication No. US20050038233A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/10/792,311
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/816,989
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-2

Query Match      65.1%; Score 108; DB 17; Length 45;
Best Local Similarity 64.4%; Pred. No. 5.7e-05;
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

Qy      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 35
Db      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 45

RESULT 5
US-09-816-989A-6
; Sequence 6, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-6

Query Match      65.1%; Score 108; DB 9; Length 86;
Best Local Similarity 57.4%; Pred. No. 0.00011;
Matches 27; Conservative 2; Mismatches 6; Indels 12; Gaps 1;

Qy      1 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 35
Db      40 AKKYAKKERAKKAYKKAERAKAERAAEAAYEA 86

RESULT 6
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US-10-792-311-6  
; Sequence 6, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lie, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; PRIOR FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-6

Query Match 65.1%; Score 108; DB 17; Length 86;  
Best Local Similarity 57.4%; Pred. No. 0.00011;  
Matches 27; Conservative 2; Mismatches 6; Indels 12; Gaps 1;

QY 1 AKKYAKKEKAKYAKKAY-----KKEAKAKAAEAAKKAAKAA 35  
DB 40 AKKYAKKEKAKYAKKAYAKKAAEAAKYAKKAAKAAKAAKAAKAA 86

RESULT 7  
US-09-816-989A-4  
; Sequence 4, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lie, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-4

Query Match 63.6%; Score 105.5; DB 9; Length 66;  
Best Local Similarity 43.9%; Pred. No. 0.00016;  
Matches 29; Conservative 2; Mismatches 4; Indels 31; Gaps 1;

QY 1 AKKYAKKEKAKYAKKAA-----KAKAAEA 29  
DB 1 AKKYAKKEKAKYAKKAAEAAKKAAKAAKAAKAAKAAKAAKAAKAA 60  
QY 30 EAAAYA 35  
DB 61 EAAAYA 66

RESULT 8  
US-10-792-311-4  
; Sequence 4, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lie, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 66  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-4

Query Match 63.6%; Score 105.5; DB 17; Length 66;  
Best Local Similarity 43.9%; Pred. No. 0.00016;  
Matches 29; Conservative 2; Mismatches 4; Indels 31; Gaps 1;

CY 1 AKKYAKKEKAKYAKKAA-----KAKAAEA 29  
IB 1 AKKYAKKEKAKYAKKAAEAAKKAAKAAKAAKAAKAAKAAKAAKAA 60

QY 30 EAAAYA 35  
DB 61 EAAAYA 66

RESULT 9  
US-09-816-989A-7  
; Sequence 7, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lie, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-7

Query Match 63.3%; Score 105; DB 9; Length 109;  
Best Local Similarity 62.2%; Pred. No. 0.0003;  
Matches 28; Conservative 2; Mismatches 5; Indels 10; Gaps 2;

QY 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35  
Db 65 AKYAKAAAEKKEKYAAAEAKAEAKAYKAEAKAAKEAAYEA 109

RESULT 10  
US-10-792-311-7  
; Sequence 7, Application US/10792311  
; Publication No. US2005003823A1  
; GENERAL INFORMATION:  
; APPLICANT: Lis, Doris  
; APPLICANT: Gad, Alexander  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-7

Query Match 63.3%; Score 105; DB 17; Length 109;  
Best Local Similarity 62.2%; Pred. No. 0.0003;  
Matches 28; Conservative 2; Mismatches 5; Indels 10; Gaps 2;

QY 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35  
Db 65 AKYAKAAAEKKEKYAAAEAKAEAKAYKAEAKAAKEAAYEA 109

RESULT 11  
US-09-816-989A-3  
; Sequence 3, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Lis, Doris  
; APPLICANT: Gad, Alexander  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 56  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-3

Query Match 63.0%; Score 104.5; DB 9; Length 56;  
Best Local Similarity 51.8%; Pred. No. 0.00017;  
Matches 29; Conservative 4; Mismatches 2; Indels 21; Gaps 2;

QY 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35

Db 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35  
Db 56 AKYAKAAAEKKEKYAAAEAKAEAKAYKAEAKAAKEAAYEA 109

RESULT 12  
US-10-792-311-3  
; Sequence 3, Application US/10792311  
; Publication No. US2005003823A1  
; GENERAL INFORMATION:  
; APPLICANT: Lis, Doris  
; APPLICANT: Gad, Alexander  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 56  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-3

Query Match 63.0%; Score 104.5; DB 17; Length 56;  
Best Local Similarity 51.8%; Pred. No. 0.00017;  
Matches 29; Conservative 4; Mismatches 2; Indels 21; Gaps 2;

QY 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35  
Db 56 AKYAKAAAEKKEKYAAAEAKAEAKAYKAEAKAAKEAAYEA 109

RESULT 13  
US-09-816-989A-5  
; Sequence 5, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Lis, Doris  
; APPLICANT: Gad, Alexander  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-5

Query Match 63.0%; Score 104.5; DB 9; Length 77;  
Best Local Similarity 65.8%; Pred. No. 0.00024;  
Matches 25; Conservative 4; Mismatches 6; Indels 3; Gaps 1;

QY 1 AKYAKKKEKAKKAY-----KKEA---KAKAAEAKEAAYEA 35

Search completed: July 27, 2005, 02:06:46  
Job time : 36.3692 secs

DB 40 AKKAKAKAEKKEYYAAAEAKYKAEEAKAAKEAAVEA 77

## RESULT 14

US-10-792-311-5  
; Sequence 5, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1998-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO: 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-5

Query Match 63.0%; Score 104.5; DB 17; Length 77;

Best Local Similarity 65.8%; Pred. No. 0.00024; Mismatches 6; Indels 3; Gaps 1;

DB 40 AKKAKAKAEKKEYYAAAEAKYKAEEAKAAKEAAVEA 77

QY 1 AKKAKAKAEKKEYYAAAEAKYKAEEAKAAKEAAVEA 35

DB 40 AKKAKAKAEKKEYYAAAEAKYKAEEAKAAKEAAVEA 77

## RESULT 15

US-10-741-849-7226  
; Sequence 7226, Application US/10741849  
; Publication No. US20050019931A1  
; GENERAL INFORMATION:  
; APPLICANT: Roemer, Terry  
; APPLICANT: Jiang, Bo  
; APPLICANT: Boone, Charles  
; APPLICANT: Bussey, Howard  
; TITLE OF INVENTION: Nucleic Acid Encoding Anti-fungal Drug Targets and Methods of  
; FILE REFERENCE: 10182-023-999  
; CURRENT APPLICATION NUMBER: US/10/741,849  
; CURRENT FILING DATE: 2003-12-19  
; PRIOR APPLICATION NUMBER: US 60/434,832  
; PRIOR FILING DATE: 2002-12-19  
; NUMBER OF SEQ ID NOS: 8000  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO: 7226  
; LENGTH: 427  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-10-741-849-7226

Query Match 52.1%; Score 86.5; DB 17; Length 427;

Best Local Similarity 65.7%; Pred. No. 0.13; Mismatches 3; Indels 1; Gaps 1;

DB 2 KKKAKKAKAKKAKKAKKAA-EAAKAAVEA 35

DB 283 KKKAKKAKAKKAKKAKKAA-EAAKAAVEA 317

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GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: July 27, 2005, 01:17:40 ; Search time 10.3376 Seconds  
(without alignments)  
252.740 Million cell updates/sec

Title: US-10-792-311-1  
Perfect score: 166  
Sequence: 1 AKKYAKKKAKAKAYKKEAKAKAAEAAPAAKAAAYEA 35

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS\_COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	166	100.0	35	4	US-09-405-743A-1
2	166	100.0	35	4	US-09-816-989A-1
3	108	65.1	45	4	US-09-405-743A-2
4	108	65.1	45	4	US-09-816-989A-2
5	108	65.1	86	4	US-09-405-743A-6
6	108	65.1	86	4	US-09-816-989A-6
7	105.5	63.6	66	4	US-09-405-743A-4
8	105.5	63.6	66	4	US-09-816-989A-4
9	105	63.3	109	4	US-09-405-743A-7
10	105	63.3	109	4	US-09-816-989A-7
11	104.5	63.0	56	4	US-09-405-743A-3
12	104.5	63.0	56	4	US-09-816-989A-3
13	104.5	63.0	77	4	US-09-405-743A-5
14	104.5	63.0	77	4	US-09-816-989A-5
15	86.5	52.1	176	4	US-09-248-796A-18922
16	76	45.8	407	4	US-09-252-991A-29581
17	72	43.4	1156	4	US-09-902-540-15564
18	67.5	40.7	32	1	US-08-152-488-13
19	67.5	40.7	32	1	US-08-303-025-15
20	67.5	40.7	32	1	US-08-677-304-13
21	67.5	40.7	32	2	US-08-436-703B-2
22	67.5	40.7	33	1	US-08-303-025-16
23	67.5	40.7	33	2	US-08-436-703B-4
24	66.5	40.1	582	4	US-09-919-497-100
25	65.5	39.5	214	3	US-09-041-889-27
26	65.5	39.5	214	4	US-09-417-264-27
27	65.5	39.5	469	4	US-09-489-039A-13565

28	65	39.2	184	4	US-09-902-540-13580	Sequence 13580, A
29	65	39.2	223	3	US-09-095-855-201	Sequence 201, App
30	65	39.2	223	4	US-09-205-426-201	Sequence 201, App
31	65	39.2	364	4	US-09-107-532A-5044	Sequence 5044, Ap
32	64.5	38.9	204	4	US-08-529-055-21	Sequence 21, Appl
33	64.5	38.9	585	4	US-09-134-000C-3802	Sequence 3802, Ap
34	64.5	38.9	8991	4	US-08-714-741-32	Sequence 32, Appl
35	64	38.6	79	4	US-09-902-540-16642	Sequence 16642, A
36	64	38.6	700	4	US-09-107-532A-5094	Sequence 5094, A
37	63	38.0	148	4	US-09-248-796A-26989	Sequence 26989, A
38	63	38.0	412	4	US-09-248-796A-20228	Sequence 20228, A
39	62.5	37.7	29	1	US-08-152-488-10	Sequence 10, Appl
40	62.5	37.7	29	1	US-08-152-488-11	Sequence 11, Appl
41	62.5	37.7	29	1	US-08-303-025-10	Sequence 10, Appl
42	62.5	37.7	29	1	US-08-303-025-11	Sequence 11, Appl
43	62.5	37.7	29	1	US-08-303-025-13	Sequence 13, Appl
44	62.5	37.7	29	1	US-08-677-304-10	Sequence 10, Appl
45	62.5	37.7	29	1	US-08-677-304-11	Sequence 11, Appl

## ALIGNMENTS

```
RESULT 1
US-09-405-743A-1
; Sequence 1, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 35
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-405-743A-1

Query Match      100.0%; Score 166; DB 4; Length 35;
Best Local Similarity 100.0%; Pred. No. 3e-13;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AKKYAKKKAKAKAYKKEAKAKAAEAAPAAKAAAYEA 35
DB      1 AKKYAKKKAKAKAYKKEAKAKAAEAAPAAKAAAYEA 35

RESULT 2
US-09-816-989A-1
; Sequence 1, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1998-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 35
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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-1
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Query Match
Best Local Similarity 100.0%; Score 166; DB 4; Length 35;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy
1 AKVAKKEKAKKAYKKEAKAAEAAYEA 35
Db
1 AKVAKKEKAKKAYKKEAKAAEAAYEA 35
```

```

RESULT 3
US-09-405-743A-2
; Sequence 2, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-405-743A-2
```

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Query Match
Best Local Similarity 65.1%; Score 108; DB 4; Length 45;
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;
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```
Qy
1 AKVAKKEKA--AKKAYK-----KEAKAKAAEAAYEA 35
Db
1 AKVAKKAKAKKAYKAKYKAAKAAKAAKAAEAAYEA 45
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```

RESULT 4
US-09-816-989A-2
; Sequence 2, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-2
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```
Query Match
Best Local Similarity 65.1%; Score 108; DB 4; Length 45;
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Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;
Qy
1 AKVAKKEKA--AKKAYK-----KEAKAKAAEAAYEA 35
Db
1 AKVAKKAKAKKAYKAKYKAAKAAKAAKAAEAAYEA 45
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```

RESULT 5
US-09-405-743A-6
; Sequence 6, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-405-743A-6
```

```
Query Match
Best Local Similarity 65.1%; Score 108; DB 4; Length 86;
Matches 27; Conservative 2; Mismatches 6; Indels 12; Gaps 1;
```

```
Qy
1 AKVAKKEKAKKAY-----KEAKAKAAEAAYEA 35
Db
40 AKVAKAKAKKEKAYAAEAAYKAAKAAKAAKAAEAAYEA 86
```

```

RESULT 6
US-09-816-989A-6
; Sequence 6, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKI
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-6
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Query Match
Best Local Similarity 57.4%; Score 108; DB 4; Length 86;
Matches 27; Conservative 2; Mismatches 6; Indels 12; Gaps 1;
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```
Qy
1 AKVAKKEKAKKAY-----KEAKAKAAEAAYEA 35
Db
40 AKVAKAKAKKEKAYAAEAAYKAAKAAKAAKAAEAAYEA 86
```

```
RESULT 7
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Query Match	52.1%	Score 86.5;	DB 4;	Length 176;
Best Local Similarity	65.7%;	Pred. No. 0.0036;		
Matches 23;	Conservative 3;	Mismatches 8;	Indels 1;	Gaps 1

Oy 2 KKYAKKKAAYKKEAKAKA-EAAKEAAVEA 35  
|:|||||:|  
Db 84 KKKAKKKAAYKKEAKAKA-EAAKEAAVEA 118  
|:|||||:|

Search completed: July 27, 2005, 01:26:45  
Job time: 11.3376 secs

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## RESULT 2

US-10-792-311-2  
; Sequence 2, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 2  
; LENGTH: 45  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-2

Query Match 100.0%; Score 213; DB 17; Length 45;  
Best Local Similarity 100.0%; Pred. No. 4.2e-16;  
Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AKKVAKKAKAEKAKYKAAEAKKAAKYKAAAEKAAAEKAAEAYEA 45  
DB 1 AKKVAKKAKAEKAKYKAAEAKKAAKYKAAAEKAAAEKAAEAYEA 45

## RESULT 3

US-09-816-989A-7  
; Sequence 7, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-7

Query Match 64.8%; Score 138; DB 9; Length 109;  
Best Local Similarity 76.6%; Pred. No. 1.3e-07;  
Matches 36; Conservative 0; Mismatches 7; Indels 4; Gaps 2;

QY 1 AKKVAKKAKAEKAKYKAAEAKK--AAKYKAAAEKAAAEKAAEAYEA 45  
DB 65 AKKVAKKAKAE--KKEVAAAEKAAAEKAAEAYEA 109

## RESULT 4

US-10-792-311-7  
; Sequence 7, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-7

Query Match 64.8%; Score 138; DB 17; Length 109;  
Best Local Similarity 76.6%; Pred. No. 1.3e-07;  
Matches 36; Conservative 0; Mismatches 7; Indels 4; Gaps 2;

QY 1 AKKVAKKAKAEKAKYKAAEAKK--AAKYKAAAEKAAAEKAAEAYEA 45  
DB 65 AKKVAKKAKAE--KKEVAAAEKAAAEKAAEAYEA 109

## RESULT 5

US-09-816-989A-3  
; Sequence 3, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 56  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-3

Query Match 63.1%; Score 134.5; DB 9; Length 56;  
Best Local Similarity 68.4%; Pred. No. 1.5e-07;  
Matches 39; Conservative 0; Mismatches 5; Indels 13; Gaps 4;

QY 1 AKKVAKK-----AKAEKA-----KKAAYKAAEAKK--AAKYKAAAEKAAAEKAAEAYEA 45  
DB 1 AKKVAKKAEKAKYKAAEAKKAAEAYKAAEAKKAAEAYEA 56

## RESULT 6

US-10-792-311-3  
; Sequence 3, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 56  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-3

Query Match 63.1%; Score 134.5; DB 17; Length 56;  
Best Local Similarity 68.4%; Pred. No. 1.5e-07;  
Matches 39; Conservative 0; Mismatches 5; Indels 13; Gaps 4;

Q/ 1 AKKYAKK-----AKAEKA-----KRAYKAAEAKK--AAAYEKAAEKAKEAYEA 45  
Db 1 AKKYAKKEKAYAKKAEKAKKAEKAYKAAEAKKAEKAYKAEKAYKAEKAYKAEKAYEA 56  
RESULT 7  
US-09-816-989A-5  
; Sequence 5, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-5

Query Match 61.5%; Score 131; DB 9; Length 77;  
Best Local Similarity 50.6%; Pred. No. 5.1e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 32; Gaps 3;

Q/ 1 AKKYAKK-----AKAEKA-----KRAYKAAEAKKAYE----- 29  
Db 1 AKKYAKKEKAYAKKAEKAKKAEKAYKAAEAKKAEKAYKAEKAYKAEKAYKAEKAYEA 60  
Q/ 30 -KAAEKAKEAYEA 45  
Db 61 YKAEAKKAAEKAAYEA 77

RESULT 8  
US-10-792-311-5  
; Sequence 5, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; CURRENT FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-5

Query Match 61.5%; Score 131; DB 17; Length 77;  
Best Local Similarity 50.6%; Pred. No. 5.1e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 32; Gaps 3;

Q/ 1 AKKYAKK-----AKAEKA-----KRAYKAAEAKKAYE----- 29  
D/ 1 AKKYAKKEKAYAKKAEKAKKAEKAYKAAEAKKAEKAYKAEKAYKAEKAYKAEKAYEA 60  
Q/ 30 -KAAEKAKEAYEA 45  
Lb 61 YKAEAKKAAEKAAYEA 77  
RESULT 9  
US-09-816-989A-6  
; Sequence 6, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-6

Query Match 59.4%; Score 126.5; DB 9; Length 86;  
Best Local Similarity 45.3%; Pred. No. 1.8e-06;  
Matches 39; Conservative 0; Mismatches 6; Indels 41; Gaps 3;

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1 RESULT 11
2 US-09-816-989A-4
3 Sequence 4, Application US/09816989A
4 Patent No. US20020115103A1
5 GENERAL INFORMATION:
6 APPLICANT: Gad, Alexander
7 APPLICANT: Lls, Doris
8 TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
9 FILE REFERENCE: 2609/60807-A-PCT-US
10 CURRENT APPLICATION NUMBER: US/09/816,989A
11 PRIOR FILING DATE: 2001-03-23
12 PRIOR APPLICATION NUMBER: 60/101,693
13 PRIOR FILING DATE: 1998-09-25
14 PRIOR APPLICATION NUMBER: PCT/US99/22402
15 PRIOR FILING DATE: 1999-09-24
16 NUMBER OF SEQ ID NOS: 7
17 SOFTWARE: PatentIn version 3.1
18 SEQ ID NO 4
19 LENGTH: 66
20 TYPE: PRT
21 ORGANISM: Artificial Sequence
22 FEATURE:

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1  RESULT 13
2
3  US-10-282-122A-55748
4  Sequence: 55748, Application US/10282122A
5  Publication No. US20040029129A1
6  GENERAL INFORMATION:
7
8  APPLICANT: Wang, Liangsu
9  APPLICANT: Zamudio, Carlos
10 APPLICANT: Malone, Cheryl
11 APPLICANT: Haselbeck, Robert
12 APPLICANT: Ohlsen, Kari
13 APPLICANT: Zyckind, Judith
14 APPLICANT: Wall, Daniel
15 APPLICANT: Trawick, John
16 APPLICANT: Carr, Grant
17 APPLICANT: Yamamoto, Robert
18 APPLICANT: Forsyth, R.
19 APPLICANT: Xu, H.
20
21 TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
22 FILE REFERENCE: ELITRA.034A
23 CURRENT APPLICATION NUMBER: US/10/282,122A
24 CURRENT FILING DATE: 2003-02-20
25 PRIOR APPLICATION NUMBER: 60/191,078
26 PRIOR FILING DATE: 2000-03-21
27 PRIOR APPLICATION NUMBER: 60/206,848
28
29
30

```



PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining prior application data removed - See file wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 55748  
LENGTH: 428  
TYPE: PRT  
ORGANISM: Enterobacter cloacae  
US-10-282-122A-55748

Query Match 50.9%; Score 108.5; DB 15; Length 428;  
Best Local Similarity 60.4%; Pred. No. 0.00086;  
Matches 32; Conservative 2; Mismatches 8; Indels 11; Gaps 2;

Qy 1 AKKVA-----KKAKEKAKKAYKAAE-----AKTAKEKAAAEKAAKEAA 42  
Db 199 AKKAADQKKAFAAKKAAQEAKEKAAAEKAAAEKAAAEKAAAEKAAAEKAA 251

RESULT 14  
US-09-816-989A-1  
Sequence 1, Application US/09816989A  
Patent No. US20020115103A1  
GENERAL INFORMATION:  
APPLICANT: Gad, Alexander  
APPLICANT: Lis, Doris  
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
FILE REFERENCE: 2609/60807-A-PCT-US  
CURRENT FILING DATE: 2001-03-23  
PRIOR APPLICATION NUMBER: US/09/816,989A  
PRIOR FILING DATE: 1998-09-25  
PRIOR APPLICATION NUMBER: 60/101,693  
PRIOR FILING DATE: 1999-09-24  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 1  
LENGTH: 35  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-1

Query Match 50.7%; Score 108; DB 9; Length 35;  
Best Local Similarity 64.4%; Pred. No. 6.6e-05;  
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

Qy 1 AKKVAKKAKEKAKKAYKAAEAKKAAKYEKAAAEKAAAEKAAAEKAAAEKAA 45  
Db 1 AKKVAKKEKA--AKKAYK-----KEAKAKAAEAAAEKAAAEKAAAEKAA 35

RESULT 15  
US-10-792-311-1  
Sequence 1, Application US/10792311

Publication No. US20050038233A1  
GENERAL INFORMATION:  
APPLICANT: Gad, Alexander  
APPLICANT: Lis, Doris  
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
FILE REFERENCE: 2609/60807-A-PCT-US  
CURRENT FILING DATE: 2004-03-02  
PRIOR APPLICATION NUMBER: US/10/792,311  
PRIOR FILING DATE: 2001-03-23  
PRIOR APPLICATION NUMBER: 60/101,693  
PRIOR FILING DATE: 1998-09-25  
PRIOR APPLICATION NUMBER: PCT/US99/22402  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO: 1  
LENGTH: 35  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-1

Query Match 50.7%; Score 108; DB 17; Length 35;  
Best Local Similarity 64.4%; Pred. No. 6.6e-05;  
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

Qy 1 AKKVAKKAKEKAKKAYKAAEAKKAAKYEKAAAEKAAAEKAAAEKAAAEKAA 45  
Db 1 AKKVAKKEKA--AKKAYK-----KEAKAKAAEAAAEKAAAEKAAAEKAA 35

Search completed: July 27, 2005, 02:06:47  
Job time: 46.4747 secs

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; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-2

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Query Match	100.0%;	Score 213;	DB 4;	Length 45;
Best Local Similarity	100.0%;	Pred. No. 1.9e-16;		
Matches	45;	Conservative	0;	Mismatches 0;
			Indels	0;
			Gaps	0

**OY**      1 AKKYAKKAKEKAKKAYAAEAACKAAYEKAAAEEKAAEAYEA 45  
         |||||  
**Db**      1 AKKYAKKAKEKAKKAYAAEAACKAAYEKAAAEEKAAEAYEA 45  
         |||||

RESULT 3  
 US-09-405-743A-7  
 : Sequence 7, Application US/09405743A  
 : Patent No. 6514938  
 : GENERAL INFORMATION:  
 : APPLICANT: Yeda Research and Development Co., Ltd.  
 : TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
 : FILE REFERENCE: 60807-A  
 : CURRENT APPLICATION NUMBER: US/09/405,743A  
 : NUMBER OF FILING DATE: 1993-09-24  
 : NUMBER OF SEQ ID NOS: 7  
 : SOFTWARE: PatentIn Ver. 2.1  
 : SEQ ID NO 7  
 : LENGTH: 109  
 : TYPE: PRT  
 : ORGANISM: Artificial Sequence  
 : FEATURE:  
 : OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
 : OTHER INFORMATION: PEPTIDE  
 : US-09-405-743A-7

Query Match	64.8%;	Score 138;	DB 4;	Length 109;
Best Local Similarity	76.6%;	Pred. No. 4.8e-08;		
Matches	36;	Conservative	0;	Mismatches 7;
			Indels	4;
			Gaps	2

QY           1 AKTYAKKAEEKAKAYKAAEAKK--AAKYEKAAAEEKAAKEEAAYEA 45  
             ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
Db          65 AKTYAKKAKE--KKEYAAAAEAKKEAIAKAYKAAEAKKAAAKEEAAYEA 109

```

RESULT 4
US-09-816-989A-7
: Sequence 7, Application US/09816989A
: Patent No. 680287
: GENERAL INFORMATION:
: APPLICANT: Gad, Alexander
: APPLICANT: Lis, Doris
: TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
: TITLE OF INVENTION: AND FOR THERAPEUTIC USE
: FILE REFERENCE: 2609/60807-A-PCT-US
: CURRENT APPLICATION NUMBER: US/09/816,989A
: CURRENT FILING DATE: 2001-03-23
: PRIOR APPLICATION NUMBER: 60/101,633
: PRIOR FILING DATE: 1998-09-25
: PRIOR APPLICATION NUMBER: PCT/US99/22402
: PRIOR FILING DATE: 1999-09-24
: NUMBER OF SEQ ID NOS: 7
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 7
: LENGTH: 109
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-7

```

Query Match	64.8%;	Score 138;	DB 4;	Length 109;
Best Local Similarity	76.6%;	Pred. No. 4.8e-08;		

Matches 36; Conservative 0; Mismatches 7; Indels 4; Gaps 2;

```
Oy      1 AKKYAKKAKAEKAKKAYKAAEAKK--AAKYEKAAAEEKAALKEAAYEA 45
        ||||| |||| | ||||| ||||| ||||| ||||| ||||| |||||
Db      65 AKKYAKAKAKAE--KKKEYAAAAEAKKAEAKKAYKAAEAKKAAAEKAAAYEA 109
```

RESULT 5  
US-09-405-743A-3  
; Sequence 3, Application US/09405743A

```

1 GENERAL INFORMATION:
2 APPLICANT: Yeda Research and Development Co., Ltd.
3 TITLE OF INVENTION: GLATRAMER ACETATE MOLECULAR WEIGHT MARKERS
4 FILE REFERENCE: 60807-A
5 CURRENT APPLICATION NUMBER: US/09/405,743A
6 CURRENT FILING DATE: 1999-09-24
7 NUMBER OF SEQ ID NOS: 7
8 SOFTWARE: PatentIn Ver. 2.1
9 SEQ ID NO 3
10 LENGTH: 56
11 TYPE: PR1
12 ORGANISM: Artificial Sequence
13 FEATURE:
14 OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
15 OTHER INFORMATION: PEPTIDE
16 US-09-405-743A-3

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Query Match	63.1%	Score	134.5	DB	4	Length	56
Similarity	68.4%	Pred. NO.	5.7e-08				
Best Local							
Matches	39	Conservative	0	Mismatches	5	Indels	13
						Gaps	4

Qy 1 AKTKAKK-----AKAEKA-----KKAYKAAEAKT--AAKYEKAAAEKAAAKEAAYEA 45  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 1 AKTKAKKEKAYAKKAEEKAAKKAEEAKAYYAAAEAKKKAEEAKT--KAEAAKAAAKEAAYEA 56

```

RESULT 6
US-09-816-989A-3
; Sequence 3, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 56
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
; US-09-816-989A-3

```

Query Match	63.1%	Score	134.5	DB	4	Length	56
Best Local Similarity	68.4%	Pred. No.	5.7e-08				
Matches	39	Conservative	0	Mismatches	5	Indels	13
						Gaps	4

QY 1 AKKVAKK-----AKAEKA-----KKAYAAEAACK--AAKYEKAAMAEKAACEAAYEA 45  
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
Db 1 AKKVAKKEKAVAKKAEEKAACKAEBAKAYKAAEAACKGAEEKY-KAEAAAKAAAEKAAYEA 56

## RESULT 7

US-09-405-743A-5  
; Sequence 5, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-5

Query Match 61.5%; Score 131; DB 4; Length 77;  
Best Local Similarity 50.6%; Pred. No. 1.9e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 32; Gaps 3;

OY 1 AKKYAKK-----AKAEKA-----KKAYKAEEKKAAKYE----- 29  
DB 1 AKKYAKKEKAYKAKKEKAKKAEAKAYKAEAKKKAKAKKAYKAKAEKKEKAYAAAEAK 60  
OY 30 -KAAAEKAAAEKAYEA 45  
DB 61 YKAEAKKAAAEKAYEA 77

RESULT 8  
US-09-816-989A-5  
; Sequence 5, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-5

Query Match 61.5%; Score 131; DB 4; Length 77;  
Best Local Similarity 50.6%; Pred. No. 1.9e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 32; Gaps 3;

OY 1 AKKYAKK-----AKAEKA-----KKAYKAEEKKAAKYE----- 29  
DB 1 AKKYAKKEKAYKAKKEKAKKAEAKAYKAEAKKKAKAKKAYKAKAEKKEKAYAAAEAK 60  
OY 30 -KAAAEKAAAEKAYEA 45  
DB 61 YKAEAKKAAAEKAYEA 77

RESULT 9

US-09-405-743A-6  
; Sequence 6, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-6

Query Match 59.4%; Score 126.5; DB 4; Length 86;  
Best Local Similarity 45.3%; Pred. No. 6.3e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 41; Gaps 3;

OY 1 AKKYAKK-----AKAEKA-----KKAYKAEEKKAAKYE----- 29  
DB 1 AKKYAKKEKAYKAKKEKAKKAEAKAYKAEAKKKAKAKKAYKAKAEKKEKAYAAAEAK 60  
OY 30 -KAAAEKAAAEKAYEA 45  
DB 61 YKAEAKKAYKAEAKKAAAEKAYEA 86

RESULT 10  
US-09-816-989A-6  
; Sequence 6, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-6

Query Match 59.4%; Score 126.5; DB 4; Length 86;  
Best Local Similarity 45.3%; Pred. No. 6.3e-07;  
Matches 39; Conservative 0; Mismatches 6; Indels 41; Gaps 3;

OY 1 AKKYAKK-----AKAEKA-----KKAYKAEEKKAAKYE----- 29  
DB 1 AKKYAKKEKAYKAKKEKAKKAEAKAYKAEAKKKAKAKKAYKAKAEKKEKAYAAAEAK 60  
OY 30 -KAAAEKAAAEKAYEA 45  
DB 61 YKAEAKKAYKAEAKKAAAEKAYEA 86

RESULT 11

US-09-405-743A-4  
; Sequence 4, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 4  
; LENGTH: 66  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-4

Query Match 56.6%; Score 120.5; DB 4; Length 66;  
Best Local Similarity 71.1%; Pred. No. 2.1e-06;  
Matches 32; Conservative 0; Mismatches 6; Indels 7; Gaps 2;

QY 1 AKKYAKKAKAEKAKYKAAEKAKYKAAEKAAEKAAEAAYEA 45  
DB 29 AKKYAKAAKAE--KKEYAAAEAK-----YKAEAAKAAAEAAEA 66

RESULT 12  
US-09-816-989A-4  
; Sequence 4, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 4  
; LENGTH: 66  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-4

Query Match 56.6%; Score 120.5; DB 4; Length 66;  
Best Local Similarity 71.1%; Pred. No. 2.1e-06;  
Matches 32; Conservative 0; Mismatches 6; Indels 7; Gaps 2;

QY 1 AKKYAKKAKAEKAKYKAAEKAKYKAAEKAAEKAAEAAYEA 45  
DB 29 AKKYAKAAKAE--KKEYAAAEAK-----YKAEAAKAAAEAAEA 66

RESULT 13  
US-09-405-743A-1  
; Sequence 1, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A

; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 35  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-1

Query Match 50.7%; Score 108; DB 4; Length 35;  
Best Local Similarity 64.4%; Pred. No. 2.4e-05;  
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

QY 1 AKKYAKKAKAEKAKYKAAEKAKYKAAEKAAEKAAEAAYEA 45  
DB 1 AKKYAKKEKA--AKKAYK-----KEAKAKAAAEAAEAAYEA 35

RESULT 14  
US-09-816-989A-1  
; Sequence 1, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 1  
; LENGTH: 35  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-1

Query Match 50.7%; Score 108; DB 4; Length 35;  
Best Local Similarity 64.4%; Pred. No. 2.4e-05;  
Matches 29; Conservative 1; Mismatches 5; Indels 10; Gaps 2;

QY 1 AKKYAKKAKAEKAKYKAAEKAKYKAAEKAAEKAAEAAYEA 45  
DB 1 AKKYAKKEKA--AKKAYK-----KEAKAKAAAEAAEAAYEA 35

RESULT 15  
US-09-489-039A-13565  
; Sequence 13565, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: 2709 2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 13565  
; LENGTH: 469  
; TYPE: PRT



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1	266	100.0	56	9	US-09-816-989A-3	Sequence 3, Appl
2	266	100.0	56	17	US-10-792-311-3	Sequence 3, Appl
3	245.5	92.3	77	9	US-09-816-989A-5	Sequence 5, Appl
4	245.5	92.3	77	17	US-10-792-311-5	Sequence 5, Appl
5	233	87.6	86	9	US-09-816-989A-6	Sequence 6, Appl
6	233	87.6	86	17	US-10-792-311-6	Sequence 6, Appl
7	198	74.4	66	9	US-09-816-989A-4	Sequence 4, Appl
8	198	74.4	66	17	US-10-792-311-4	Sequence 4, Appl
9	180.5	67.9	109	9	US-09-816-989A-7	Sequence 7, Appl
10	180.5	67.9	109	17	US-10-792-311-7	Sequence 7, Appl
11	134.5	50.6	45	9	US-09-816-989A-2	Sequence 2, Appl

12	134.5	50.6	45	17	US-10-792-311-2	Sequence 2, Appl
13	117	44.0	372	15	US-10-282-122A-68109	Sequence 68109, A
14	117	44.0	369	15	US-10-282-122A-67145	Sequence 67145, A
15	117	44.0	421	15	US-10-282-122A-56453	Sequence 56453, A
16	116.5	43.8	229	15	US-10-282-122A-60543	Sequence 60543, A
17	113.5	42.3	407	15	US-10-282-122A-75047	Sequence 75047, A
18	112.5	42.3	387	15	US-10-282-122A-72645	Sequence 72645, A
19	111	41.7	488	15	US-10-282-122A-55748	Sequence 55748, A
20	110.5	41.5	376	15	US-10-282-122A-75772	Sequence 75772, A
21	108.5	40.8	333	15	US-10-282-122A-59321	Sequence 59321, A
22	105.5	39.7	372	10	US-09-820-843A-8	Sequence 8, Appl
23	105.5	39.7	372	16	US-10-467-421-16	Sequence 16, Appl
24	104.5	39.3	35	9	US-09-816-898A-1	Sequence 1, Appl
25	104.5	39.3	35	17	US-10-792-311-1	Sequence 1, Appl
26	103	38.7	223	13	US-10-051-643-201	Sequence 201, App
27	103	38.7	223	14	US-10-1205-979-52	Sequence 52, Appl
28	102.5	38.5	347	14	US-10-127-033-120	Sequence 120, App
29	102.5	38.5	347	15	US-10-282-122A-66237	Sequence 66237, A
30	102	38.3	146	15	US-10-296-115-1023	Sequence 1023, Ap
31	101	38.0	376	14	US-10-156-765-9889	Sequence 9889, Ap
32	98.5	37.0	336	15	US-10-282-122A-69962	Sequence 69962, A
33	98	36.8	425	17	US-10-741-848-7226	Sequence 7226, Ap
34	96.5	36.3	272	16	US-10-739-930-10710	Sequence 10710, A
35	96.5	36.3	452	14	US-10-184-893-5	Sequence 5, Appl
36	95	35.1	213	17	US-10-732-923-13026	Sequence 13026, A
37	95	35.1	78	14	US-10-177-722-11	Sequence 11, Appl
38	95	35.7	78	15	US-10-393-443-11	Sequence 11, Appl
39	95	35.7	83	14	US-10-177-722-12	Sequence 12, Appl
40	95	35.7	83	15	US-10-393-443-12	Sequence 12, Appl
41	95	35.7	388	15	US-10-282-122A-78190	Sequence 78190, A
42	95	35.7	523	14	US-10-128-714-8303	Sequence 8303, Ap
43	94.5	35.5	214	14	US-10-229-567-27	Sequence 27, Appl
44	94.5	35.5	214	15	US-10-282-122A-62547	Sequence 62547, A
45	94.5	35.5	214	15	US-10-282-122A-64817	Sequence 64817, A

## ALIGNMENTS

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1 RESULT 1
2 US-09-816-989A-3
3 ; Sequence 3, Application US/09816989A
4 ; Patent No. US20020115103A1
5 ; GENERAL INFORMATION:
6 ; APPLICANT: Gad, Alexander
7 ; APPLICANT: Lis, Doris
8 ; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
9 ; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
10 ; FILE REFERENCE: 2609/60807-A-PCT-US
11 ; CURRENT APPLICATION NUMBER: US/09/816,989A
12 ; CURRENT FILING DATE: 2001-03-23
13 ; PRIOR APPLICATION NUMBER: 60/101,693
14 ; PRIOR FILING DATE: 1998-09-25
15 ; PRIOR APPLICATION NUMBER: PCT/US99/22402
16 ; PRIOR FILING DATE: 1999-09-24
17 ; NUMBER OF SEQ ID NOS: 7
18 ; SOFTWARE: PatentIn version 3.1
19 ; SEQ ID NO 3
20 ; LENGTH: 56
21 ; TYPE: PRT
22 ; ORGANISM: Artificial Sequence
23 ; FEATURE:
24 ; OTHER INFORMATION: Description of Artificial Peptide
25 ; US-09-816-989A-3

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	Best Local Similarity	100.0%; Pred. No. 1, 8e-18;
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QY	1 AKYYAKKKKYYAKKAACKAACKAAKYAAABAKKAAAEAKTYAAEAACAAAANKAZAYEA	56
b	1 AKYYAKKKKYYAKKAACKAACKAAKYAAABAKKAAAEAKTYAAEAACAAAANKAZAYEA	56

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RESULT 2
US-10-792-311-3
Sequence 3, Application US/10792311
Publication No. US20050038233A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
APPLICANT: Lis, Doris
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKER
TITLE OF INVENTION: AND FOR THERAPEUTIC USE
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/10/792,311
CURRENT FILING DATE: 2004-03-02
PRIOR APPLICATION NUMBER: US/09/816,989
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 56
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-3

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Query Match 100.0%; Score 266; DB 17; Length 56;
Best Local Similarity 100.0%; Pred. NO. 1-be-16;
Matches 56; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 AKTAKKKEKAYAKKAEEKAKKAYKAAKKAEEKAKKAYKAAKKAEEKAYEA 56
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1 AKTAKKKEKAYAKKAEKAKKAEKAKKAYKAAKKAEEKAKKAYKAAKKAEEKAYEA 56
|||||

Db 1 AKTAKKKEKAYAKKAEKAKKAEKAKKAYKAAKKAEEKAKKAYKAAKKAEEKAYEA 56
|||||

RESULT 3
US-09-816-989A-5
; Sequence 5, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-5

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	92.3%;	Score 245.5;	DB 9;	Length 77;
Query Match Similarity	Best Local Similarity	Pred. No. 2.2e-16;		
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QY	1 AKTAKKKKXAVAKKAKEKAAKAEAKAYKAAEKKK-----AAEK 39			
D8	1 AKTKAKKKKAAVAKKAEEKAAKAEAAVPAAPAAEKKKAAKAAEAATKAYAAVAEKKEYYAAMAEAK 60			
QY	40 YKAEAAAKAAAEKAAVEA 56			

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Db          61 YKAAAKAARAYEA 77
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RESULT 4    US-10-792-311-5
; Sequence 5, Application US//10792311
; Publication No. US20050038233A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
TITLE OF INVENTION: Lys, Deltis
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKER
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/10/792,311
CURRENT FILING DATE: 2004-03-02
PRIOR APPLICATION NUMBER: US/09/816,989
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 77
; TYPE: PRP
; ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-5
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Query Match	92.3%	Score 245.5;	DB 17;	Length 77;
Best Local Similarity	72.7%;	Pred. No. 2,-2e-16;		
Matches	56;	Conservative 0;	Mismatches 0;	Indels 21; Gaps 1;
Qy	1	AKVYKKKEKAVYKKKEAKKAAEAKYKAAEAKK-----AAK 39		
Db	1	AKKYAKKEKAVYKKKEAKKAAEAKYKAAEAKKAAEAKYKAAEKEKYYAAAEAK 60		
Qy	40	YKAAEAKKAAAEKAAEAA 56		
Db	61	YKAAEAKKAAAEKAAEAA 77		

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RESULT 5
; US-09-816-989A-6
; Sequence 6, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
; US-09-816-989A-6

Query Match      87.6%; Score 233; DB 9; Length 86;
Best Local Similarity 62.8%; Pred. No. 3,8e-15;

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: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-4

Query Match
Best Local Similarity 80.3%; Pred. No. 6,3e-12;
Matches 53; Conservative 2; Mismatches 1; Indels 10; Gaps 5;

QY 1 AKKYAKKEKAY--AKKAE-KAAK--KAEAKAY-KAAEAKKK---AEAKYKAEAAKAAK 50
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      1 AKKYAKKEKAYAKAKKAEAKAKAKKAKKAEAKKYAKKAAKAEKKEVAAAEAKYKAEAAKAAK 60

QY 51 EAAYEA 56
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Db 61 EAAYEA 66

RESULT 8
US-10-792-311-4
; Sequence 4, Application US/10792311
; Publication No. US20050038233A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/10/792,311
CURRENT FILING DATE: 2004-03-02
PRIORITY APPLICATION NUMBER: US/09/816,989
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 4
LENGTH: 66
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-4

Query Match
Best Local Similarity 74.4%; Score 198; DB 9; Length 66;
Matches 53; Conservative 2; Mismatches 1; Indels 10; Gaps 5;

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      1 AKKYAKKEKAYAKAKKAEAKAKAKKAKKAEAKKYAKKAAKAEKKEVAAAEAKYKAEAAKAAK 60

QY 51 EAAYEA 56
      |||||
Db 61 EAAYEA 66

RESULT 9
US-09-816-989A-7
; Sequence 7, Application US/09816989A
; Patent No. US20020115103A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
APPLICANT: Lis, Doris
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/09/816,989A
CURRENT FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25

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RESULT 3  
US-10-282-122A-68109  
; Sequence 68109, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl

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APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT FILING DATE: 2003-02-20
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-03-21
PRIOR FILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-05-26
PRIOR FILING DATE: 2000-09-06
PRIOR FILING DATE: 2000-09-06
PRIOR FILING DATE: 2000-09-09
PRIOR FILING DATE: 2000-09-09
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-12-22
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-09
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 68109
LENGTH: 372
TYPE: PRT
ORGANISM: Pseudomonas putida
US-10-282-122A-68109

Query Match      44.0%; Score 117; DB 15; Length 372;
Best Local Similarity 66.0%; Pred. No. 0.002;
Matches 31; Conservative 2; Mismatches 12; Indels 2; Gaps 1;

QY      7 KEKAYAKKAEKAKAEKAYKAAEAKKAEKAYKAAEAKKAEKAA 53
Db      113 REAAEAKKAEKAEKAAEAA--KAAEAKKAEKAEKAAEAKKAEK 157

RESULT 14
US-10-282-122A-67145
Sequence 67145, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT FILING DATE: 2003-02-20
PRIOR FILING DATE: 2000-02-20
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PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 67145
LENGTH: 389
TYPE: PRT
ORGANISM: Pasteurella multocida
US-10-282-122A-67145

Query Match      44.0%; Score 117; DB 15; Length 389;
Best Local Similarity 55.9%; Pred. No. 0.0021;
Matches 33; Conservative 7; Mismatches 15; Indels 4; Gaps 2;

QY      1 AKKAKKKKAYK--KAEKAKKAEKAYKAEKAKKAEKAEKAEKAEK 56
Db      189 AKKAKKAEKAEKAEKAYKAEKAEKAEKAEKAEKAEKAEKAEK 246

RESULT 15
US-10-282-122A-56483
Sequence 56483, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT FILING DATE: 2003-02-20
PRIOR FILING DATE: 2000-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
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? PRIOR FILING DATE: 2000-12-22
? PRIOR APPLICATION NUMBER: 60/267, 636
? PRIOR FILING DATE: 2001-02-09
? PRIOR APPLICATION NUMBER: 60/269, 308
? PRIOR FILING DATE: 2001-02-16
? Remaining Prior Application data removed - See File Wrapper or PALM.
? NUMBER OF SEQ ID NOS: 78614
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 56483
? LENGTH: 421
? TYPE: prt
? ORGANISM: Escherichia coli
US-10-282-122A-56483

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Query Match	44.0%;	Score 117;	DB 15;	Length 421;
Best Local Similarity	54.7%;	Pred. No. 0.0022;		
Matches 35;	Conservative 5;	Mismatches 10;	Indels 14;	Gaps 2;

**QY**    7 KKKVAKKKEAAKKAEEAKKY-----AAEAKKAAE----KYKAEAAKAAAKEA 52  
         | : ||| : |||| |         ||||| : |||| |         ||||| : |||| |  
**Dd**    148 KAEEADAKAAEEAAKKAADAKKKAEAEAAKAAAEAQKKAEAAAAATLKKKAEAAEAFAAAA 207

QY	53	AYEA	56
		:	
Db	208	RKKA	211

Search completed: July 27, 2005, 02:06:47  
Job time : 56.5907 secs







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; ORGANISM: Artificial Sequence
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; FEATURE:
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; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide

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Result No.	Score	Query Match	Length	DB	ID	Description
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2	313	100.0	66	17	US-10-792-311-4	Sequence 4, Appl1
3	282.5	90.3	77	9	US-09-816-989A-5	Sequence 5, Appl1
4	282.5	90.3	77	17	US-10-792-311-5	Sequence 5, Appl1
5	268	85.6	86	9	US-09-816-989A-6	Sequence 6, Appl1
6	268	85.6	86	17	US-10-792-311-6	Sequence 6, Appl1
7	228.5	73.0	109	9	US-09-816-989A-7	Sequence 7, Appl1
8	228.5	73.0	109	17	US-10-792-311-7	Sequence 7, Appl1
9	198	63.3	56	9	US-09-816-989A-3	Sequence 3, Appl1
10	198	63.3	56	17	US-10-792-311-3	Sequence 3, Appl1
11	131	41.9	421	15	US-10-282-122A-56483	Sequence 56483, A

12	130	11.5	323	15	US-10-282-122A-59322	A	Sequence 55928, A
13	130	41.5	428	15	US-10-282-122A-55748	A	Sequence 55741, A
14	126.5	40.4	389	15	US-10-282-122A-67145	A	Sequence 67145, A
15	124.5	39.8	407	15	US-10-282-122A-75047	A	Sequence 75047, A
16	122.5	39.1	372	15	US-10-282-122A-68109	A	Sequence 68109, A
17	122.5	39.1	376	15	US-10-282-122A-75772	A	Sequence 75772, A
18	121	38.7	387	15	US-10-282-122A-72645	A	Sequence 72645, A
19	120.5	38.5	45	9	US-09-816-889A-2	A	Sequence 2, Appli
20	120.5	38.5	45	17	US-10-792-311-2	A	Sequence 2, Appli
21	119.5	38.2	347	14	US-10-127-031-120	A	Sequence 120, App
22	119.5	38.2	347	15	US-10-282-122A-66237	A	Sequence 66237, A
23	117.5	37.5	372	10	US-09-820-843A-8	A	Sequence 8, Appli
24	117.5	37.5	372	16	US-10-467-421-16	A	Sequence 16, Appl
25	117	37.4	388	15	US-10-282-122A-78190	A	Sequence 78190, A
26	115	36.7	336	15	US-10-282-122A-69962	A	Sequence 69962, A
27	114	36.4	452	14	US-10-184-833-5	A	Sequence 5, Appli
28	113	36.1	472	16	US-10-739-930-10710	A	Sequence 10710, A
29	111.5	35.6	239	15	US-10-282-122A-60543	A	Sequence 60543, A
30	110.5	35.3	232	17	US-10-732-923-12985	A	Sequence 12985, A
31	109.5	35.0	63	16	US-10-667-004-20	A	Sequence 20, Appl
32	108.5	34.7	84	15	US-10-424-599-269191	A	Sequence 269191, A
33	108.5	34.7	279	14	US-10-181-071-7	A	Sequence 7, Appli
34	106	33.9	214	14	US-10-229-567-27	A	Sequence 27, Appl
35	106	33.9	214	15	US-10-282-122A-62547	A	Sequence 62547, A
36	106	33.9	214	15	US-10-282-122A-64817	A	Sequence 64817, A
37	105.5	33.7	35	9	US-09-816-889A-1	A	Sequence 1, Appli
38	105.5	33.7	35	17	US-10-792-311-1	A	Sequence 1, Appli
39	105.5	33.7	212	15	US-10-282-122A-61735	A	Sequence 61735, A
40	105.5	33.7	885	16	US-10-425-115-198446	A	Sequence 198446, A
41	105	33.5	183	16	US-10-767-7031-61321	A	Sequence 61321, A
42	105	33.5	213	17	US-10-732-923-13026	A	Sequence 13026, A
43	105	33.5	448	15	US-10-282-122A-45264	A	Sequence 45264, A
44	104.5	33.4	223	15	US-10-051-974-201	A	Sequence 201, App
45	104.5	33.4	223	14	US-10-005-679-52	A	Sequence 52, Appl

## ALIGNMENTS

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:RESULT 1
:US-09-816-989A-4
:Sequence 4, Application US/09816989A
:Patent No. US20020115103A1
:GENERAL INFORMATION:
:APPLICANT: Gad, Alexander
:APPLICANT: Lis, Doris
:TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
:FILE OF INVENTION: AND FOR THERAPEUTIC USE
:FILE REFERENCE: 2609/60807-A-PCT-US
:CURRENT APPLICATION NUMBER: US/09/816,989A
:CURRENT FILING DATE: 2001-03-23
:PRIOR APPLICATION NUMBER: 60/101,693
:PRIOR FILING DATE: 1998-09-25
:PRIOR APPLICATION NUMBER: PCT/US99/22402
:PRIOR FILING DATE: 1999-09-24
:NUMBER OF SEQ ID NOS: 7
:SOFTWARE: PatentIn version 3.1
:SEQ ID NO 4
:LENGTH: 66
:TYPE: PRT
:ORGANISM: Artificial Sequence
:FEATURE:
:OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
:US-09-816-989A-4

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Query Match	100.0%;	Score 313;	DB 9;	Length 66;
Best Local Similarity	100.0%;	Pred. No. 7.3e-22;		
Matches 66;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Dy 1 AKTTAKKEKAYAKAKKAEAATKAAKAKTAKAATAKEKKETVAAAEEATKYAEAAKAAAK 600

Dd 1 AKTTAKKEKAYAKAKKAEAATKAAKAKTAKAATAKEKKETVAAAEEATKYAEAAKAAAK 600



PRIOR APPLICATION NUMBER: 60/101,693

APPLICANT: Gad, Alexander

```

? APPLICANT: Lis, Doiris
? TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
? TITLE OF INVENTION: AND FOR THERAPEUTIC USE
? FILE REFERENCE: 2609/60807-A-PCT-US
? CURRENT APPLICATION NUMBER: US/09/816, 989A
? CURRENT FILING DATE: 2001-03-23
? PRIOR APPLICATION NUMBER: 60/101, 693
? PRIOR FILING DATE: 1998-09-25
? PRIOR APPLICATION NUMBER: PCT/US99/22402
? PRIOR FILING DATE: 1999-09-24
? NUMBER OF SEQ ID NOS: 7
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 3
? LENGTH: 36
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-3

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Qy	1	AKKAKKKEKKYAKAKKAAKAKKAAKAKKAAKAKKKEKKYAAAKKAKKAAKAAK	60
Db	1	AKKAKKKEKKAY--AKKAA--KAAK--KAAKAY--KAAKAAK---AAKAKKAAKAAKAAK	50
Qy	61	EAAYEA	66
Db	51	EAAYEA	56

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RESULT 10
US-10-792-311-3
; Sequence 3, Application US/10792311
; Publication No. US20050038233A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lie, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/10/792,311
; PRIORITY FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/816,989
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 56
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
; US-10-792-311-3

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[illegible]

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RESULT 11
US-10-282-122A-56483
: Sequence 56483, Application US/10282122A
: Publication No. US20040029129A1
: GENERAL INFORMATION:
: APPLICANT: Wang, Liangsu
: APPLICANT: Zamudio, Carlos
: APPLICANT: Malone, Cheryl
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Karl
: APPLICANT: Zyskind, Judith
: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John
: APPLICANT: Carr, Grant
: APPLICANT: Yamamoto, Robert
: APPLICANT: Forsyth, R.
: APPLICANT: Xu, H.
: TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
: FILE REFERENCE: ELITRA.034A
: CURRENT APPLICATION NUMBER: US/10/282,122A
: PRIOR FILING DATE: 2003-02-20
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/230,335
: PRIOR FILING DATE: 2000-09-06
: PRIOR APPLICATION NUMBER: 60/220,347
: PRIOR FILING DATE: 2000-09-09
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/267,636
: PRIOR FILING DATE: 2001-02-09
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 78614
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 56483
: LENGTH: 421
: TYPE: PRT
: ORGANISM: Escherichia coli
US-10-282-122A-56483

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Query Match      41.9%; Score 131; DB 15; Length 421;
Best Local Similarity 52.6%; Pred. No. 0.00027;
Matches 41; Conservative 9; Mismatches 16; Indels 12; Gaps 3;

QY      1 AKYKAKEKAYAKK-----KAERKAARKKAKKAYAK-----AAKAEKK-EVAAA 48
      ::::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      134 AEEAATAAADAKKAEADAKKAAEEAKKAAAADKKCAEAAKAAEAQCKKAEAAAAL 193
      ::::|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      49 KYKAEAKKAAKKAAYEA 66
      :|||||:|||||:|:|
Db      194 KKKAEAAEAEEAAERKKA 211
      :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 12
US-10-282-122A-59321
; Sequence 59321, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert

```



```
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
FILE REFERENCE: ELITRA.034A
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 59321
LENGTH: 323
TYPE: PRT
ORGANISM: Klebsiella pneumoniae
US-10-282-122A-59321

Query Match      41.5% Score 130; DB 15; Length 323;
Best Local Similarity 57.7%; Pred. No. 0.00025;
Matches 41; Conservative 6; Mismatches 18; Indels 6; Gaps 3;

QY      1 AKYAKKKEAYAKA--KKAEEKAKKAAEKKA--KAAYAEKKEVAAE-ATYKAA 54
DB      80 AKKQAEAEAKKAAAEKOKKAAAKKQOEAEKKAQCEAAKQAAEKAAAEKAAKAA 139
QY      55 AKAAKKAAYE 65
DB      140 QCAAAEKAAAE 150

RESULT 13
US-10-282-122A-55748
Sequence 55748, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
FILE REFERENCE: ELITRA.034A
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
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CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 55748
LENGTH: 428
TYPE: PRT
ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      41.5% Score 130; DB 15; Length 428;
Best Local Similarity 56.1%; Pred. No. 0.00034;
Matches 37; Conservative 11; Mismatches 16; Indels 2; Gaps 2;

QY      1 AKYAKKKEAYAKA--KKAEEKAKKAAEKKA--KAAYAEKKEVAAE-ATYKAA 60
DB      163 AAEAAKKAADNQ-KKAEEAAKKAADNQKKA-EAAKKAADNQKKAEEAAKKAAD 220
QY      61 EAAVEA 66
DB      221 EAEKKA 226

RESULT 14
US-10-282-122A-67145
Sequence 67145, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
FILE REFERENCE: ELITRA.034A
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
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? PRIOR APPLICATION NUMBER: 60/230,347
? PRIOR FILING DATE: 2000-09-09
? PRIOR APPLICATION NUMBER: 60/242,578
? PRIOR FILING DATE: 2000-10-23
? PRIOR APPLICATION NUMBER: 60/253,625
? PRIOR FILING DATE: 2000-11-37
? PRIOR APPLICATION NUMBER: 60/257,931
? PRIOR FILING DATE: 2000-12-22
? PRIOR APPLICATION NUMBER: 60/267,636
? PRIOR FILING DATE: 2001-02-09
? PRIOR APPLICATION NUMBER: 60/269,308
? PRIOR FILING DATE: 2001-02-16
? Remaining Prior Application data removed - See File Wrapper or PALM.
? NUMBER OF SEQ ID NOS: 78614
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 67145
? LENGTH: 389
? TYPE: PRN
? ORGANISM: Pasteurella multocida
? IS-10-282-122A-67145

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Qy	52	AEAAKAAKKAEEAAEAA 66	
Db	243	AEKAAADAEAAAKRKA 257	

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RESULT 15
US-10-282-122A-75047
; Sequence 75047, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,825
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09

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? PRIOR APPLICATION NUMBER: 60/269,308
? PRIOR FILING DATE: 2001-02-16
? Remaining Prior Application data removed - See File Wrapper or PAM.
? NUMBER OF SEQ ID NOS: 78614
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 75047
? LENGTH: 407
? TYPE: prt
? ORGANISM: Salmonella typhimurium
US-10-282-122A-75047

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Qy	44	AAAEAKKYKAENA	-----	KAAEENA		63	
Db	245	AAAEAKKKAADAAAKAAADAKKKAEEENA		274			

Search completed: July 27, 2005, 02:06:48  
Job time : 67.6962 secs

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1 AKYAKKEREKRYAQA-----KAEEAAK-----KAAEAKYAKAKAKAKKEY 43
189 AKKKAEEAAKKAABAAKKAEEAAKAAABAAKKAADAAKAAKAAEAKKKAADAAAK---- 244
44 AAEEAKYKAEAA-----KAAKEEA 63
245 AAEEAKKKKAADAAAAKAADAKKKAAAEKKA 274

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; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-4
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Query Match          100.0%; Score 313; DB 4; Length 66;
Best Local Similarity 100.0%; Pred. No. 1.2e-23;
Matches 66; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 AKYAKKKEKAYAK-----AKKAEAK-----AAKKAKEAKKYAKAAKAEKKEKYAAAEK 60
DB 1 AKYAKKKEKAYAKKAEKAKKAEKAAKKAKEKAAKAEKKEKYAAAEK 60
QY 61 EAAVEA 66
DB 61 EAAVEA 66
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RESULT 3
US-09-405-743A-5
; Sequence 5, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-405-743A-5
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Query Match          90.3%; Score 282.5; DB 4; Length 77;
Best Local Similarity 84.4%; Pred. No. 1.2e-20;
Matches 65; Conservative 0; Mismatches 1; Indels 11; Gaps 2;
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QY 1 AKYAKKKEKAYAK-----AKKAEAK-----AAKKAKEAKKYAKAAKAEKKEKYAAAEK 49
DB 1 AKYAKKKEKAYAKKAEKAKKAEKAAKKAKEKAAKAEKKEKYAAAEK 60
QY 50 YKAEAAKAAKAEAAVEA 66
DB 61 YKAEAAKAAKAEAAVEA 77
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```

RESULT 4
US-09-816-989A-5
; Sequence 5, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
```

```

; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-5
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```

Query Match          90.3%; Score 282.5; DB 4; Length 77;
Best Local Similarity 84.4%; Pred. No. 1.2e-20;
Matches 65; Conservative 0; Mismatches 1; Indels 11; Gaps 2;
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QY 1 AKYAKKKEKAYAK-----AKKAEAK-----AAKKAKEAKKYAKAAKAEKKEKYAAAEK 49
DB 1 AKYAKKKEKAYAKKAEKAKKAEKAAKKAKEKAAKAEKKEKYAAAEK 60
QY 50 YKAEAAKAAKAEAAVEA 66
DB 61 YKAEAAKAAKAEAAVEA 77
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```

RESULT 5
US-09-405-743A-6
; Sequence 6, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
US-09-405-743A-6
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Query Match          85.6%; Score 268; DB 4; Length 86;
Best Local Similarity 75.6%; Pred. No. 3.3e-19;
Matches 65; Conservative 0; Mismatches 1; Indels 20; Gaps 3;
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QY 1 AKYAKKKEKAYAK-----AKKAEAK-----AAKKAKEAKKYAKAAKAEKKEKYAAAEK 49
DB 1 AKYAKKKEKAYAKKAEKAKKAEKAAKKAKEKAAKAEKKEKYAAAEK 60
QY 50 -----YKAEAAKAAKAEAAVEA 66
DB 61 YKAEAAKAYKAEAAKAAKAEAAVEA 86
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```

RESULT 6
US-09-816-989A-6
; Sequence 6, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; PRIOR FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
```

RESULT 10  
 TS-09-816-989A-3  
 ; Sequence 3, Application US/09816989A  
 ; Patent No. 6800287  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gad, Alexander  
 ; APPLICANT: Lis, Doris  
 ; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
 ; TITLE OF INVENTION: AND FOR THERAPEUTIC USE  
 ; FILE REFERENCE: 2609/60807-A-PCT-US  
 ; CURRENT APPLICATION NUMBER: US/09/816,989A  
 ; CURRENT FILING DATE: 2001-03-23  
 ; PRIOR APPLICATION NUMBER: 60/101,693  
 ; PRIOR FILING DATE: 1998-09-25  
 ; PRIOR APPLICATION NUMBER: PCT/US99/22402  
 ; PRIOR FILING DATE: 1999-09-24

```

/
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 3
/ LENGTH: 56
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
/ OS-09-816-989A-3

```

Query Match	63.3%	Score 198	DB 4:	Length 56;
Best Local Similarity	80.3%	Pred. No.	1,1e-12;	
Matches	53;	Conservative	1;	Indels 10;
		Mismatches	1;	Gaps 5

**D**

<b>Qy</b>	1 AKKAKKEKA YAKAKAEAKAKAKKAKAEKKYAKAAKKEKEZYAAEA KYKAEAAKAAK 60                     :           
<b>Db</b>	1 AKKYAKKEKAY - AKKAE-KAAK- KAEAKAY- KAAEAKKK --- AEA KYKAEAAKAAK 50

QY	61	EAYEA	66
Db	51	EAYEA	56

RESULT 11  
US-09-489-039A-13565  
Semence 13565. Application IIS/09489039A

APPLICANT: Gary Breton et. al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

PRIOR APPLICATION NUMBER: US 60/117,747  
 PRIOR FILING DATE: 1999-01-29  
 NUMBER OF SEQ ID NOS: 14342

ORGANISM: *Klebsiella pneumoniae*  
US-09-489-039A-13565

Query Match	41.5%	Score 130	DB 4	Length 469
Best Local Similarity	57.7%	Pred. No.	3.3e-05	
Matches 41	Conservative	6	Mismatches 18	Indels 6
				Gaps 3

**OY** 1 AKKYAKKEKAYAKA--KKAEAKKAkkakkaEAKkYA--KAALAAEKKEYYAAAE-AKYYAAEA 54  
| | : | | | | | | | | : | | | | | | |  
**Dd** 230 AKQAAEAEEAKAAMAEAQKKAEAAAAAKKAQQEAEAKKAQQEAAEQMAAEKMAAAEEKAAEKAA 289

QY	55	AKAAAKEAAE	65
		:	
Db	290	QKAAAEKAAAE	300

RESULT 12  
US-08-460-890A-64  
Semiannual 64 Application US/08A50890A

Patent No. 5994109  
 GENERAL INFORMATION:  
 APPLICANT: Moo, Savio L.C.  
 APPLICANT: Smith, Louis C.  
 APPLICANT: Cristiano, Richard J.  
 APPLICANT: Gotchalk, Stephen  
 TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
 TITLE OF INVENTION: METHODS OF USE  
 NUMBER OF SEQUENCES: 65  
 CORRESPONDENCE ADDRESS:

STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles

STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071 2000

ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDICAL EVENT: 3 11 01

MEDIUM TYPE: 3.5" Diskette, 1.44 MB  
MEDIUM TYPE: storage  
COMMITTED: 1000000000

COMPUTER: IBM compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: EASTSCO for Windows 3.0

SOFTWARE: FASTSEQ FOR WINDOWS 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: ITS/08/450 8907

APPLICATION NUMBER: 03/08/480,850A  
FILING DATE: June 5, 1995  
CLASSIFICATION: A3E

CLASSIFICATION: 433  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 00/167 641

APPLICATION NUMBER: 08/107,041  
FILING DATE: December 14, 1993  
APPLICATION NUMBER: 07/955,380

APPLICATION NUMBER: 01/855,389  
FILING DATE: March 20, 1992  
APPLICATION NUMBER: PCT/US92/03735E

APPLICATION NUMBER: PCI/0555/02  
 FILING DATE: March 19, 1993  
 TOBNEY/AGENT INFORMATION:

NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 33 337

REGISTRATION NUMBER: 32,32,  
REFERENCE/DOCKET NUMBER: 212/066  
RECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440

TELEPHONE: 67-3510  
TELEX: 67-3510  
INFORMATION FOR SEC ID NO: 64

SEQUENCE CHARACTERISTICS:  
LENGTH: 100 amino acids

STRANDEDNESS: single

TOPOLOGY: linear

OTHER INFORMATION: "

OTHER INFORMATION: present or absent.

Y Match	40.9%;	Score 128;	DB 2;	Length 100;
Local Similarity	62.7%;	Pred. No. 1.1e-05;		
Conservative	5;	Mismatches 16;	Indels 4;	Gaps 4;
42:				

[illegible]

57 AAAKEAA 63  
62 AKAKAKA 68

13  
167-641C-64

APPLICANT: woo, Savio L.C.

APPLICANT: Cristiano, Richard J.  
 TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
 TITLE OF INVENTION: METHODS OF USE  
 NUMBER OF SEQUENCES: 65  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Lyon & Lyon  
 STREET: 633 West Fifth Street  
 STREET: Suite 4700

COUNTRY: U.S.A.  
STATE: California  
ZIP: 90071-2066

COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FASTSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/167,641C  
FILING DATE: December 14, 1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/855,389  
FILING DATE: March 20, 1992  
APPLICATION NUMBER: PCT/US93/02725  
FILING DATE: March 19, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 205/012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 100 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be  
US-08-167-641C-64

Query Match 40.9%; Score 128; DB 3; Length 100;  
Best Local Similarity 62.7%; Pred. No. 1.1e-05;  
Matches 42; Conservative 5; Mismatches 16; Indels 4; Gaps 4;

QY 1 AKKYAK-KEKAYAKK-KAEAKAKAKKAEAKKYAKA-AKAEKKEVAAAEAKYKAA-AK 56  
DB 2 AAK 61

QY 57 AAKAEA 63  
DB 62 AAKAKA 68

RESULT 14  
US-08-460-971A-64  
Sequence 64, Application US/08460971A  
Patent No. 6150168  
GENERAL INFORMATION:  
APPLICANT: WOO, Savio L.C.  
APPLICANT: Smith, Louis C.  
APPLICANT: Cristiano, Richard J.  
APPLICANT: Gotchalk, Stephen  
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
TITLE OF INVENTION: METHODS OF USE  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: FASTSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/460,971A  
FILING DATE: June 5, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/167,641  
FILING DATE: December 14, 1993  
APPLICATION NUMBER: 07/855,389  
FILING DATE: March 20, 1992  
APPLICATION NUMBER: PCT/US93/02725  
FILING DATE: March 19, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 212/063  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 100 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be  
US-08-460-971A-64

Query Match 40.9%; Score 128; DB 3; Length 100;  
Best Local Similarity 62.7%; Pred. No. 1.1e-05;  
Matches 42; Conservative 5; Mismatches 16; Indels 4; Gaps 4;

QY 1 AKKYAK-KEKAYAKK-KAEAKAKAKKAEAKKYAKA-AKAEKKEVAAAEAKYKAA-AK 56  
DB 2 AAK 61

QY 57 AAKAEA 63  
DB 62 AAKAKA 68

RESULT 15  
US-08-462-040-64  
Sequence 64, Application US/08462040  
Patent No. 6177554  
GENERAL INFORMATION:  
APPLICANT: WOO, Savio L.C.  
APPLICANT: Smith, Louis C.  
APPLICANT: Cristiano, Richard J.  
APPLICANT: Gotchalk, Stephen  
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
TITLE OF INVENTION: METHODS OF USE  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
MEDIUM TYPE: storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FASTSEQ for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/462,040

FILING DATE: June 5, 1995  
 CLASSIFICATION: 536  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/167,641  
 FILING DATE: December 14, 1993  
 APPLICATION NUMBER: 07/855,389  
 FILING DATE: March 20, 1992  
 APPLICATION NUMBER: PCT/US93/02725  
 FILING DATE: March 19, 1993  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Warburg, Richard J.  
 REGISTRATION NUMBER: 32,327  
 REFERENCE/DOCKET NUMBER: 212/078  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (213) 489-1600  
 TELEFAX: (213) 955-0440  
 TELEX: 67-3510  
 INFORMATION FOR SEQ ID NO: 64:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 100 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 FEATURE:  
 OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be  
 present or absent.  
 US-08-462-040-64

Query Match	Score	DB	Length
40.9%	128	3	100

Matches 42; Conservative 5; Mismatches 16; Indels 4; Gaps 4;

[illegible]

QY	57	AAAKEAA	63
Db	62	AKAKAKA	68

Search completed: July 27, 2005, 01:26:46  
Job time : 19.4937 secs



[illegible]

Qy	61	YKAEAAKAAAKEAAYEA	77
Db	61	YKAEAAKAAAKEAAYEA	77

## RESULT 2

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US-10-792-311-5
/ Sequence 5, Application US/10792311
/ Publication No. US20050038233A1
/ GENERAL INFORMATION:
/ APPLICANT: Gad, Alexander
/ APPLICANT: Lis, Doris
/ TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
/ TITLE OF INVENTION: AND FOR THERAPEUTIC USE
/ FILE REFERENCE: 2609/60807-A-PCT-US
/ CURRENT APPLICATION NUMBER: US/10/792,311
/ CURRENT FILING DATE: 2004-03-02
/ PRIOR APPLICATION NUMBER: US/09/816,989
/ PRIOR FILING DATE: 2001-03-23
/ PRIOR APPLICATION NUMBER: 60/101,693
/ PRIOR FILING DATE: 1998-09-25
/ PRIOR APPLICATION NUMBER: PCT/US99/22402
/ PRIOR FILING DATE: 1999-09-24
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 5
/ LENGTH: 77
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-5

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RESULT 3  
US-09-81

```

Sequence 6, Application US/09816989A
Patent No. US20020115103A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
APPLICANT: Lis, Doris
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/09/816,989A
CURRENT FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 86
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-816-989A-6
Query Match          96.0%; Score 351.5; DB 9; Length 86;

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Best Local Similarity 89.5%; Pred. No. 1.7e-23;  
Matches 77; Conservative 0; Mismatches 0; Indels 9; Gaps 1;

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QY      61 -----YKAEAKAAAKEAAYEA 77
          |||||
Db      61 YKAEAKKAYKAEAKAAAKEAAYEA 86

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## RESULT 4

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US-10-792-311-6
Sequence 6, Application US//10792311
Publication No. US20050038233A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
APPLICANT: Lis, Doris
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/10/792,311
CURRENT FILING DATE: 2004-03-02
PRIOR APPLICATION NUMBER: US//09/816,989
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 86
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-10-792-311-6

```

RESULT 5

```

US-09-616-989A-
; Sequence 7, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COCOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 109

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```

; Sequence 3, Application US/09816989A
; Patent No. US20020115103A1
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander

```

```

Query Match      67.1%; Score 245.5; DB 17; Length 56;
Best Local Similarity 72.7%; Pred. No. 1.7e-14;
Matches 56; Conservative 0; Mismatches 0; Indels 21; Gaps 1;

Qy    1 AKKVAKKKEKVYAKKAEKPAKKAAYAAAKKKAKKAEAKKYAKAALAEKKETVAAAAPAK 60
Db    1 AKKTAKKKEKAAKAKKAKKPKAKKAAEAATVAAAEAKKK-----AEAK 39

Qy    61 YKAEATAQAAKEAAVEEA 77
Db    40 YKAEAAAKAAAKAAEAAVEEA 56

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RESULT 12  
US-10-282-122A-75047  
: Sequence 75047, Application US/10282122A  
: Publication No. US20040029129A1  
: GENERAL INFORMATION:  
: APPLICANT: Wang, Liangsu  
: APPLICANT: Zamudio, Carlos  
: APPLICANT: Malone, Cheryl  
: APPLICANT: Haselbeck, Robert

```
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: Patentin version 3.1
SEQ ID NO: 75047
LENGTH: 407
TYPE: PRT
ORGANISM: Salmonella typhimurium
US-10-282-122A-75047

Query Match      40.4%; Score 148; DB 15; Length 407;
Best Local Similarity 54.4%; Pred. No. 3.7e-05;
Matches 49; Conservative 8; Mismatches 13; Indels 20; Gaps 5;

Cy 1 AKKYAKKEKAYAKKEKAKKAEKAYK-AAEAKKKAKKAYAKKAAAEK-EEY 54
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 189 AKKKAEAE--AKAAEAKKKAEEAEAKKAAAEKKKADAEAK--AAAEAKKADAAAK 244
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

Cy 55 AAEEAKYKAEAA-----KAAAEKAA 74
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 245 AAEEAKKADAAAKKADAKKKKAAAEKAA 274

RESULT 13
US-10-282-122A-72645
Sequence 72645, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
```

```
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: Patentin version 3.1
SEQ ID NO: 72645
LENGTH: 387
TYPE: PRT
ORGANISM: Salmonella paratyphi A
FEATURE:
NAME/KEY: MISC FEATURE
LOCATION: (78)..(78)
OTHER INFORMATION: X=any amino acid
NAME/KEY: MISC FEATURE
LOCATION: (303)..(303)
OTHER INFORMATION: X=any amino acid
US-10-282-122A-72645

Query Match      40.0%; Score 146.5; DB 15; Length 387;
Best Local Similarity 58.6%; Pred. No. 4.7e-05;
Matches 51; Conservative 7; Mismatches 16; Indels 13; Gaps 6;

Cy 1 AKKYAKKEKAYAKKEKAKKAEKAYK-AAEAKKKAKKAEKAYK-AAA 55
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Lb 141 AKKKAEPEA--AKAADAKKKAEAEKVKAADAKKKAEAAKAAADAKKKAEAEAK-A 197
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

Cy 56 AAEEAKYK--AAEAKKAA--KEAAVEA 77
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Lb 198 AAEEAKKAEAEAKKAAADAKKKKADAE 224

RESULT 14
US-10-282-122A-75772
Sequence 75772, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
```

```
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 75772
; LENGTH: 376
; TYPE: PRF
; ORGANISM: Salmonella typhi
US-10-282-122A-75772

Query Match      39.9%; Score 146; DB 15; Length 376;
Best Local Similarity 54.4%; Pred. No. 5e-05;
Matches 49; Conservative 7; Mismatches 14; Indels 20; Gaps 5;

QY      1 AKKVAKKKAVAKKKAKEAKAAYK-AAEAKKKAKAAYKAAKAEKK-----SY 54
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      158 AKKAEAEK--AKAADAKKAEAEAKAAAEAKKAEAEAKK--AAADAKKAEAEAK 213
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY      55 AAABAKYKAEAA-----KAAAKEAA 74
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      214 AAABAKKADAAAKAAADAKKAAAEKAA 243
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 15
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 55748
; LENGTH: 428
; TYPE: PRF
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      39.3%; Score 144; DB 15; Length 428;
Best Local Similarity 59.0%; Pred. No. 8.6e-05;
Matches 49; Conservative 11; Mismatches 11; Indels 12; Gaps 6;

QY      1 AKKVA--KKKAVAKKAEKAA-----KKAAYK--AAEAKKKAKAAYKAAKAEKK 52
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      167 AKKAAADAKKAEAEAKKAAADAKKAEAEAKKAAADAKKAEAEAKKAA--AEAEKK 225
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY      53 EYAAAEAKYKAEAA-KAAAKEAA 74
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      226 --AAABAKKAAAEAKKAAAEKAA 246
      ||| | | | | | | | | | | | | | | | | | | | | | | | | | | |

Search completed: July 27, 2005, 02:06:48
Job time : 77.8122 secs
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sequence 3, application US/09815989A  
Patent No. 6800287  
GENERAL INFORMATION:  
APPLICANT: Gad, Alexander  
APPLICANT: lls, doris  
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
TITLE OF INVENTION: AND FOR THERAPEUTIC USE  
FILE REFERENCE: 2609/60807-A-PCT-US  
CURRENT APPLICATION NUMBER: US/09/816,989A  
CURRENT FILING DATE: 2001-03-23  
PRIORITY APPLICATION NUMBER: 60/101,693  
PRIORITY FILING DATE: 1998-09-25  
PRIORITY APPLICATION NUMBER: PCT/US99/22402  
PRIORITY FILING DATE: 1999-09-24

NUMBER OF SEQ ID NOS: 7  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 3  
LENGTH: 56  
TYPE: PRT  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-3

Query Match 67.1%; Score 245.5; DB 4; Length 56;  
Best Local Similarity 72.7%; Pred. No. 1.1e-16;  
Matches 56; Conservative 0; Mismatches 0; Indels 21; Gaps 1;

QY 1 AKYAKKKEKAYAKKAEKAAKAYKAAEAKKAKAEAKKYAKAAKAEKKEVAAAEAK 60  
1 AKYAKKKEKAYAKKAEKAAKAYKAAEAKKAKAEAKKYAKAAKAEKKEVAAAEAK 60  
DB 1 AKYAKKKEKAYAKKAEKAAKAYKAAEAKKAKAEAKKYAKAAKAEKKEVAAAEAK 60  
QY 61 YKAEAKKAAKAEAYEA 77  
40 YKAEAKKAAKAEAYEA 56  
DB 40 YKAEAKKAAKAEAYEA 56

RESULT 11  
US-08-460-890A-64  
Sequence 64, Application US/08460890A  
Patent No. 5994109  
GENERAL INFORMATION:  
APPLICANT: WOO, Savio L.C.  
APPLICANT: Smith, Louis C.  
APPLICANT: Cristiano, Richard J.  
APPLICANT: Gottchalk, Stephen  
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
TITLE OF INVENTION: METHODS OF USE  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/460,890A  
FILING DATE: June 5, 1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/167,641  
FILING DATE: December 14, 1993  
APPLICATION NUMBER: 07/855,389  
FILING DATE: March 20, 1992  
APPLICATION NUMBER: PCT/US93/02725  
FILING DATE: March 19, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 212/066  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 100 amino acids  
TYPE: amino acid  
STRANDEDNESS: single

TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be present or absent.  
US-08-460-890A-64

Query Match 39.5%; Score 144.5; DB 2; Length 100;  
Best Local Similarity 58.4%; Pred. No. 5.9e-07;  
Matches 45; Conservative 6; Mismatches 23; Indels 3; Gaps 3;

QY 1 AKYAK-REKAYAKKAEKAAKAYKAAEAKKAKAEAKKYAKAAKAEKKEVAAAE 58  
2 AK 61  
DB 2 AK 61  
QY 59 AKYKAE-AKAAKEA 74  
62 AK 78  
DB 62 AK 78

RESULT 12  
US-08-167-641C-64  
Sequence 64, Application US/08167641C  
Patent No. 6033884  
GENERAL INFORMATION:  
APPLICANT: WOO, Savio L.C.  
APPLICANT: Smith, Louis C.  
APPLICANT: Cristiano, Richard J.  
APPLICANT: Gottchalk, Stephen  
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND  
TITLE OF INVENTION: METHODS OF USE  
NUMBER OF SEQUENCES: 65  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lyon & Lyon  
STREET: 633 West Fifth Street  
STREET: Suite 4700  
CITY: Los Angeles  
STATE: California  
COUNTRY: U.S.A.  
ZIP: 90071-2066  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: IBM P.C. DOS 5.0  
SOFTWARE: FastSeq for Windows 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/167,641C  
FILING DATE: December 14, 1993  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/855,389  
FILING DATE: March 20, 1992  
APPLICATION NUMBER: PCT/US93/02725  
FILING DATE: March 19, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Warburg, Richard J.  
REGISTRATION NUMBER: 32,327  
REFERENCE/DOCKET NUMBER: 205/012  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (213) 489-1600  
TELEFAX: (213) 955-0440  
TELEX: 67-3510  
INFORMATION FOR SEQ ID NO: 64:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 100 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
FEATURE:  
OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be present or absent.



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QY      1 AKKVAK-KEKAYAKKEKAKKEKAKYKAAAEKKKAKAEAKKVAKA-AKAEKKEYAAAE 58
      Db      2 AAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAK 61
QY      59 AKYKAAE-AKAAAKEAA 74
      Db      62 AKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAK 78
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## RESULT 15

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US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581
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Query Match      38.7%; Score 141.5; DB 4; Length 407;
Best Local Similarity 44.1%; Pred.No. 4.8e-06;
Matches 45; Conservative 9; Mismatches 19; Indels 29; Gaps 3;
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QY      1 AKKVAKKEKAVAKKAEKKAKKABAKA-----YKAAE-A 32
      Db      180 AKKAQAQKAAEKKADEAKKAAEAKAAEQKQADIAKKRAEDBAKKKAAEDAKKKAEDDA 239
QY      33 KKKAKAEAKKVAKAAAEKKEKYAAAEAKYKAEAKAAAKEAA 74
      Db      240 KKKAAEAKKKA-AAEAAKKAAVEAKKKKAAAAAARAKKA 280
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Search completed: July 27, 2005, 01:26:47  
Job time : 23.7426 secs

Result No.	Score	Query Match	Length	DB	ID	Description
1	409	100.0	86	9	US-09-816-989A-6	Sequence 6, Appl1
2	409	100.0	86	17	US-10-792-311-6	Sequence 6, Appl1
3	351.5	88.9	77	9	US-09-816-989A-5	Sequence 5, Appl1
4	351.5	88.9	77	17	US-10-792-311-5	Sequence 5, Appl1
5	312.5	76.4	109	9	US-09-816-989A-7	Sequence 7, Appl1
6	312.5	76.4	109	17	US-10-792-311-7	Sequence 7, Appl1
7	268	65.5	66	9	US-09-816-989A-4	Sequence 4, Appl1
8	268	65.5	66	17	US-10-792-311-4	Sequence 4, Appl1
9	233	57.0	56	9	US-09-816-989A-3	Sequence 3, Appl1
10	233	57.0	56	17	US-10-792-311-3	Sequence 3, Appl1
11	165.5	40.5	407	15	US-10-282-122A-75047	Sequence 75047, A

[illegible]

## ALIGNMENTS

RESULT 1  
 US-09-816-989A-6  
 Sequence 6, Application US/09816989A  
 Patent No. US20020115103A1  
 GENERAL INFORMATION:  
 APPLICANT: Gad, Alexander  
 APPLICANT: Lis, Doris  
 TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
 FILE OF INVENTION: AND FOR THERAPEUTIC USE  
 FILE REFERENCE: 2609/60807-A-PCT-US  
 CURRENT APPLICATION NUMBER: US/09/816,989A  
 CURRENT FILING DATE: 2001-03-23  
 PRIOR APPLICATION NUMBER: 60/101,693  
 PRIOR FILING DATE: 1998-09-25  
 PRIOR APPLICATION NUMBER: PCT/US99/22402  
 PRIOR FILING DATE: 1999-09-24  
 NUMBER OF SEQ ID NOS: 7  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 6  
 LENGTH: 86  
 TYPE: PRT  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
 US-09-816-989A-6

	Query Match	Similarity	100.0 %	Score	409	DB %	Length	86
	Best Local	Similarity	100.0 %	Pred.	No. 4	2e-28		
	Matches	Conservative	0	Mismatches	0	Indels	Gaps	0
Oy	1	AKYAAKKEKAYAKKAAGCAKKAENKAYKAAAPAKKKACAAEAKKYAKKAAAEKCEYVAAAANK	60					
Dh	1	AKYAAKKEKAYAKKAAGCAKKAENKAYKAAAPAKKKACAAEAKKYAKKAAAEKCEYVAAAANK	60					



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; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
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	Query March	57.0%;	Score 233;	DB 17;	Length 56;	
	Best Local Similarity	62.8%;	Pred. No. 3.3e-13;			
	Matches	54;	Conservative	2;	Mismatches	0; Indels 30; Gaps 1;
Oy	1	AKKTAKKKEKAATKAAEKAAKAAKAYKAAEAATKKKAAEAGKYKAAAGAEEGCEKAAAAEA	60			
			:			
Dd	1	AATTAATKEKAATAAOKERAAKGAERAAKAYTAAAEAAKAAEA	39			
Oy	61	YKAEAAKKAAAYKAEAPAAAANKAAEAATYA	86			
			:			
Dd	40	-----YKAEAAKAAAKAAEAATYA	56			

RESULT 12  
US-10-282-122A-72645  
: Sequence 72645, Application US/10282122A  
: Publication No. US20040029129A1  
: GENERAL INFORMATION:  
: APPLICANT: Wang, Liangsu  
: APPLICANT: Zamudio, Carlos  
: APPLICANT: Malone, Cheryll  
: APPLICANT: Haselbeck, Robert



```

APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282.122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 56483
LENGTH: 421
TYPE: PRT
ORGANISM: Escherichia coli
US-10-282-122A-56483

Query Match          40.1%; Score 164; DB 15; Length 421;
Best Local Similarity 59.3%; Pred. No 2,3e-06;
Matches 51; Conservative 7; Mismatches 18; Indels 10; Gaps 4;

QY      7 KEKAYAKKEKAKKAEKAYKAAEAK-KKAKKAKKTYAKA-----KAEKKEVAAA 59
      148 KAEADAKKAAEEAKKKAADAKKTAEEAAKAAABAQAQKAEAAAAALKKKGAFAAFAAAAAA 207
Dk      60 KYKA--EAAKKAYKAEAKKAAAEAA 83
      208 RKKAATEAAEKA-KAEAEKKAEEKA 232

RESULT 14
US-10-282-122A-68109
Sequence 68109, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282.122A
CURRENT FILING DATE: 2003-02-20

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; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

Query Match          39.9%; Score 163; DB 15; Length 372;
Best Local Similarity 53.1%; Pred. No. 2,4e-06;
Matches 52; Conservative 12; Mismatches 22; Indels 12; Gaps 5;

QY      1 AKKYAKKEKA--YAKKAE-KAAKKAQAKYKAA--EAKKKAQAEAKCA-----KAAKA 49
      148 AKKAQKQADIAKKKAEDEAKKAEBAKKAABEAKKKAADAKKKAEEAKKKAAD 207

DB      50 EKKEYYAAAEAKYK-ABAAKKAAYKAEAKKAKEAAVEA 86
      208 AKKKAABEDAKKKAABEAKKKAADAAQKKKAQEAARKA 245

RESULT 15
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA-034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
```

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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match          39.4%; Score 161; DB 15; Length 428;
Best Local Similarity 47.5%; Pred. No. 4,2e-06;
Matches 48; Conservative 16; Mismatches 21; Indels 16; Gaps 3;

QY      1 AKKYAKKEKAYAKKAEKAKK-----AEAKYKAEAKKKKAEAKKYAKAKAEKK 52
      127 ABEAKKKAQEOCKQAEBAKKAADAKAQAADQAKLAEBAKKKAADQKKAE-BAAKK 185

DB      53 EYAAAEAKYKAEBAKKA-----YKAEBAKKAKEAAVEA 86
      186 AAADQKKAEBAEAKKKAADAAQKKAEBAEAKKKAQEAARKA 226

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Job time : 87.9072 secs
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Comphen Ltd.

OM protein - protein search, using sw model

Run on: July 27, 2005, 01:17:40 ; Search time 25.4008 Seconds  
(without alignments)  
252.740 Million cell updates/sec

Title: US-10-792-311-6  
Perfect score: 409  
Sequence: 1 AKKYAKKEKAYAKKAKEAAK.....KKAYKAKEAKAEEAAVEA 86

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
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4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/Backfill1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	409	100.0	86	4	US-09-405-743A-6	Sequence 6, Appl1
2	409	100.0	86	4	US-09-816-989A-6	Sequence 6, Appl1
3	351.5	85.9	77	4	US-09-405-743A-5	Sequence 5, Appl1
4	351.5	85.9	77	4	US-09-816-989A-5	Sequence 5, Appl1
5	312.5	76.4	109	4	US-09-405-743A-7	Sequence 7, Appl1
6	312.5	76.4	109	4	US-09-816-989A-7	Sequence 7, Appl1
7	268	65.5	66	4	US-09-405-743A-4	Sequence 4, Appl1
8	268	65.5	66	4	US-09-816-989A-4	Sequence 4, Appl1
9	233	57.0	56	4	US-09-405-743A-3	Sequence 3, Appl1
10	233	57.0	56	4	US-09-816-989A-3	Sequence 3, Appl1
11	157.5	38.5	469	4	US-09-489-039A-13565	Sequence 13565, A
12	156	38.1	100	2	US-08-460-890A-64	Sequence 64, Appl1
13	156	38.1	100	3	US-08-167-641C-64	Sequence 64, Appl1
14	156	38.1	100	3	US-08-460-971A-64	Sequence 64, Appl1
15	156	38.1	100	3	US-08-462-040-64	Sequence 64, Appl1
16	154	37.7	407	4	US-09-252-991A-29581	Sequence 29581, A
17	147	35.9	214	4	US-09-041-889-27	Sequence 27, Appl1
18	147	35.9	214	4	US-09-417-264-27	Sequence 27, Appl1
19	141.5	34.6	361	4	US-09-543-681A-5390	Sequence 5390, Ap
20	140.5	34.4	214	4	US-09-328-352-5169	Sequence 5169, Ap
21	140	34.2	468	4	US-09-328-352-6321	Sequence 6321, Ap
22	137.5	33.6	472	2	US-08-216-894-10	Sequence 10, Appl1
23	137.5	33.6	472	2	US-09-115-746-10	Sequence 2, Appl1
24	137.5	33.6	564	2	US-08-216-894-2	Sequence 2, Appl1
25	137.5	33.6	564	3	US-09-115-746-2	Sequence 2, Appl1
26	137.5	33.6	643	2	US-08-216-894-8	Sequence 8, Appl1
27	137.5	33.6	643	3	US-09-115-746-8	Sequence 8, Appl1

28	135	33.0	1156	4	US-09-902-540-15564	Sequence 15564, A
29	133.5	32.6	433	1	US-08-346-849-2	Sequence 2, Appl1
30	133.5	32.6	433	1	US-08-293-284A-2	Sequence 2, Appl1
31	133.5	32.6	433	4	US-08-898-300-2	Sequence 2, Appl1
32	133.5	32.6	433	4	US-08-824-512-2	Sequence 2, Appl1
33	129.5	31.7	223	3	US-09-095-855-201	Sequence 201, App
34	129.5	31.7	223	4	US-09-426-426-201	Sequence 201, App
35	127.5	31.2	1507	3	US-08-929-329-5	Sequence 5, Appl1
36	127	31.1	207	4	US-09-489-039A-13743	Sequence 13743, A
37	127	31.1	222	3	US-09-041-889-3	Sequence 3, Appl1
38	127	31.1	222	3	US-08-837-058-3	Sequence 3, Appl1
39	127	31.1	222	4	US-09-417-264-3	Sequence 3, Appl1
40	126.5	30.9	45	4	US-09-405-743A-2	Sequence 2, Appl1
41	126.5	30.9	45	4	US-09-816-989A-2	Sequence 2, Appl1
42	122.5	30.0	921	4	US-09-543-681A-5734	Sequence 5734, Ap
43	121	29.6	158	3	US-09-041-889-40	Sequence 40, Appl1
44	121	29.6	158	3	US-09-417-264-40	Sequence 40, Appl1
45	121	29.6	171	4	US-09-270-767-39148	Sequence 39148, A

## ALIGNMENTS

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RESULT 1
US-09-405-743A-6
; Sequence 6, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 86
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
; OTHER INFORMATION: PEPTIDE
US-09-405-743A-6
Query Match 100.0%; Score 409; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 3.2e-31;
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 AKKYAKKEKAYAKKAKEAAK...KKAYKAKEAKAEEAAVEA 60
Db 1 AKKYAKKEKAYAKKAKEAAK...KKAYKAKEAKAEEAAVEA 60
QY 61 YKAAKAKYKAAKAAKAAKAAVEA 86
Db 61 YKAAKAKYKAAKAAKAAKAAVEA 86
RESULT 2
US-09-816-989A-6
; Sequence 6, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
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NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-6

Query Match 100.0%; Score 409; DB 4; Length 86;  
Best Local Similarity 100.0%; Pred. No. 3.2e-31;  
Matches 86; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
DB 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
QY 61 YKAEAKKAYKAEAKKAAKAEAYEA 86  
DB 61 YKAEAKKAYKAEAKKAAKAEAYEA 86

RESULT 3  
US-09-405-743A-5  
; Sequence 5, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-5

Query Match 85.9%; Score 351.5; DB 4; Length 77;  
Best Local Similarity 89.5%; Pred. No. 5.8e-26;  
Matches 77; Conservative 0; Mismatches 0; Indels 9; Gaps 1;

QY 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
DB 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
QY 61 YKAEAKKAYKAEAKKAAKAEAYEA 86  
DB 61 YKAEAKKAYKAEAKKAAKAEAYEA 77

RESULT 4  
US-09-816-989A-5  
; Sequence 5, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24

NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-5

Query Match 85.9%; Score 351.5; DB 4; Length 77;  
Best Local Similarity 89.5%; Pred. No. 5.8e-26;  
Matches 77; Conservative 0; Mismatches 0; Indels 9; Gaps 1;

QY 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
DB 1 AKYAKKEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
QY 61 YKAEAKKAYKAEAKKAAKAEAYEA 86  
DB 61 YKAEAKKAYKAEAKKAAKAEAYEA 77

RESULT 5  
US-09-405-743A-7  
; Sequence 7, Application US/09405743A  
; Patent No. 6514938  
; GENERAL INFORMATION:  
; APPLICANT: Yeda Research and Development Co., Ltd.  
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS  
; FILE REFERENCE: 60807-A  
; CURRENT APPLICATION NUMBER: US/09/405,743A  
; CURRENT FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC  
US-09-405-743A-7

Query Match 76.4%; Score 312.5; DB 4; Length 109;  
Best Local Similarity 72.1%; Pred. No. 3.3e-22;  
Matches 80; Conservative 1; Mismatches 3; Indels 27; Gaps 5;

QY 1 AKYAKK-EKAYAKKA-----EKAACKAEKAYKAAEKKA----- 36  
DB 1 AKYAKKAEKAYAKKAEKAKAEKAYKAAEKAKKAKYAKKAEKKEKYYAAAEK 60  
QY 37 -KAEAKKAYAKKAEKKEKYYAAAEKAYKAAEKAKKAYKAAEAAYEA 86  
DB 61 YKAEAKKAYKAEAKKAAKAEKYYAAAEK-KAEAA-KAYKAAEAAYEA 109

RESULT 6  
US-09-816-989A-7  
; Sequence 7, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24

RESULT 10  
US-09-816-989A-3  
; Sequence 3, Application US/09816989A  
; Patent No. 6800287  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lie, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS  
; TITLE OF INVENTION: AND FOR THERAPEUTIC USE  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816, 989A  
; CURRENT FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24

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STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,890A
FILING DATE: June 5, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/167,641
FILING DATE: December 14, 1993
APPLICATION NUMBER: 07/855,389
FILING DATE: March 20, 1992
APPLICATION NUMBER: PCT/US93/02725
FILING DATE: March 19, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 212/066
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 64:
SEQUENCE CHARACTERISTICS:
LENGTH: 100 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
present or absent.
US-08-460-890A-64

Query Match      38.1%; Score 156; DB 2; Length 100;
Best Local Similarity 55.3%; Pred. No. 8,3e-08;
Matches 47; Conservative 6; Mismatches 30; Indels 2; Gaps 2;

QY      1 AKTYAK-KEKAVAKAEKAKAEKAYVAAEKKKAKEAKKYARA-AKEKEKYAAAE 58
        ||||| :||| |::||| |::||| |::||| |::||| |::||| |::||| |
DB       2 AKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAK 61

QY      59 AKYKAEPKKYATVEAKAAKKAA 83
        ||||| :||| |::||| |::||| |::||| |::||| |::||| |
DB       62 AKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 86

RESULT 13
US-08-167-641C-64
Sequence 64, Application US/08167641C
Patent No. 6033884
GENERAL INFORMATION:
APPLICANT: Moo, Savio L.C.
APPLICANT: Smith, Louis C.
APPLICANT: Cristiano, Richard J.
APPLICANT: Gotchalk, Stephen
TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
TITLE OF INVENTION: METHODS OF USE
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
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1      FILING DATE: June 5, 1995
2      CLASSIFICATION: 536
3      PRIOR APPLICATION DATA:
4      APPLICATION NUMBER: 08/167,641
5      FILING DATE: December 14, 1993
6      APPLICATION NUMBER: 07/855,389
7      FILING DATE: March 20, 1992
8      APPLICATION NUMBER: PCT/US93/02725
9      FILING DATE: March 19, 1993
10     ATTORNEY/AGENT INFORMATION:
11     NAME: Warburg, Richard J.
12     REGISTRATION NUMBER: 32,337
13     REFERENCE/DOCKET NUMBER: 212/078
14     TELECOMMUNICATION INFORMATION:
15     TELEPHONE: (213) 489-1600
16     TELEFAX: (213) 955-0440
17     TELEX: 67-3510
18     INFORMATION FOR SEQ ID NO: 64:
19     SEQUENCE CHARACTERISTICS:
20     LENGTH: 100 amino acids
21     TYPE: amino acid
22     STRANDEDNESS: single
23     TOPOLOGY: linear
24     MOLECULE TYPE: peptide
25     FEATURE:
26     OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
27     OTHER INFORMATION: present or absent.
28     US-08-462-040-64

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Query Match 38.1%; Score 156; DB 3; Length 100;

Matches 47; Conservative 6; Mismatches 30; Indels 2; Gaps 2;

[illegible]

QY 59 AKYKAEAAKKAYKAEAAKAAAKEAA 83  
62 AKAKAKAKAKAKAKAKAKAKAKAKA 86  
Db

Search completed: July 27, 2005, 01:26:47  
Job time : 25.4008 secs





QY 61 YKAEKKYAKAKAEKKEYYAAAEAKKAEAAKAYKAEAAKAEAAKAEAAVEA 109  
Db 61 YKAEKKYAKAKAEKKEYYAAAEAKKAEAAKAYKAEAAKAEAAKAEAAVEA 109

## RESULT 2

US-10-792-311-7  
; Sequence 7, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; PRIOR FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 7  
; LENGTH: 109  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-7

Query Match 100.0%; Score 519; DB 17; Length 109;  
Best Local Similarity 100.0%; Pred. No. 1.1e-33;  
Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AKYVAKAEKAYAKAKAEKKEKAYAKAEKAYKAEAAKKAAYKAEKKYAKAEAAKKA 60  
Db 1 AKYVAKAEKAYAKAKAEKKEKAYAKAEKAYKAEAAKKAAYKAEKKYAKAEAAKKA 60  
QY 61 YKAEKKYAKAKAEKKEYYAAAEAKKAEAAKAYKAEAAKAEAAKAEAAVEA 109  
Db 61 YKAEKKYAKAKAEKKEYYAAAEAKKAEAAKAYKAEAAKAEAAKAEAAVEA 109

## RESULT 3

US-09-816-989A-6  
; Sequence 6, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-09-816-989A-6

Query Match 60.2%; Score 312.5; DB 9; Length 86;

Best Local Similarity 72.1%; Pred. No. 1.3e-17;  
Matches 80; Conservative 1; Mismatches 3; Indels 27; Gaps 5;

QY 1 AKYVAKAEKAYAKAKAEKKEKAYAKAEKAYKAEAAKKAAYKAEKKYAKAEAAKKA 60  
Db 1 AKYVAKK-EKAYAKKA-----EKAKKAEKAYKAEAAKKA----- 36  
QY 61 YKAEKKYAKAKAEKKEYYAAAEAK-KAEA-KAYKAEAAKAEAAVEA 109  
Db 37 -KAEKKYAKAKAEKKEYYAAAEAKYKAEAAKAYKAEAAKAEAAVEA 86

## RESULT 4

US-10-792-311-6  
; Sequence 6, Application US/10792311  
; Publication No. US20050038233A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/10/792,311  
; PRIOR FILING DATE: 2004-03-02  
; PRIOR APPLICATION NUMBER: US/09/816,989  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 6  
; LENGTH: 86  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
US-10-792-311-6

Query Match 60.2%; Score 312.5; DB 17; Length 86;  
Best Local Similarity 72.1%; Pred. No. 1.3e-17;  
Matches 80; Conservative 1; Mismatches 3; Indels 27; Gaps 5;

QY 1 AKYVAKAEKAYAKAKAEKKEKAYAKAEKAYKAEAAKKAAYKAEKKYAKAEAAKKA 60  
Db 1 AKYVAKK-EKAYAKKA-----EKAKKAEKAYKAEAAKKA----- 36  
QY 61 YKAEKKYAKAKAEKKEYYAAAEAK-KAEA-KAYKAEAAKAEAAVEA 109  
Db 37 -KAEKKYAKAKAEKKEYYAAAEAKYKAEAAKAYKAEAAKAEAAVEA 86

## RESULT 5

US-09-816-989A-5  
; Sequence 5, Application US/09816989A  
; Patent No. US20020115103A1  
; GENERAL INFORMATION:  
; APPLICANT: Gad, Alexander  
; APPLICANT: Lis, Doris  
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK  
; FILE REFERENCE: 2609/60807-A-PCT-US  
; CURRENT APPLICATION NUMBER: US/09/816,989A  
; PRIOR FILING DATE: 2001-03-23  
; PRIOR APPLICATION NUMBER: 60/101,693  
; PRIOR FILING DATE: 1998-09-25  
; PRIOR APPLICATION NUMBER: PCT/US99/22402  
; PRIOR FILING DATE: 1999-09-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 77



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APPLICANT Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: EITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 55748
LENGTH: 428
TYPE: PRF
ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      36.6%; Score 190; DB 15; Length 428;
Best Local Similarity 50.8%; Pred. No. 2,6e-07;
Matches 64; Conservative 8; Mismatches 32; Indels 22; Gaps 5

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QY 48 KYAEAAKAKEAYKAEKRYKAAKAAKEKYAAAE-----KKAEAAKAA---YYAEAKA 100
Db 225 KAAEAARKKAAAAKAAAEKAAAEKAAADKKAAEKAAADKAAAEKAAADKKAADKAAADKA 284
QY 101 AAKEAA 106
Db 285 AAKTAA 290

RESULT 11
US-10-282-122A-56483
Sequence 56483, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: EITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
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RESULT 12  
US-10-282-122A-75047  
Sequence 75047, Application US/10282122A  
Publication No. US2004002912SA1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl  
APPLICANT: Haeelbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zykkind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITGA 034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578

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1      RESULT 13
2      US-10-282-122A-59321
3      : Sequence 59321, Application US/10282122A
4      : Publication No. US20040029129A1
5      :
6      : GENERAL INFORMATION:
7      :
8      : APPLICANT: Wang, Liangsu
9      : APPLICANT: Zamudio, Carlos
10     : APPLICANT: Malone, Cheryl
11     : APPLICANT: Haselbeck, Robert
12     : APPLICANT: Ohlsen, Karl
13     : APPLICANT: Zyskind, Judith
14     : APPLICANT: Wall, Daniel
15     : APPLICANT: Trawick, John
16     : APPLICANT: Carr, Grant
17     : APPLICANT: Yamamoto, Robert
18     : APPLICANT: Forsyth, R.
19     :
20     : TITLE OR INVENTION: Identification of Essential Genes in Microorganisms
21     :
22     : FILE REFERENCE: ELITRA.034A
23     :
24     : CURRENT APPLICATION NUMBER: US/10/282,122A
25     :
26     : CURRENT FILING DATE: 2003-02-20
27     :
28     : PRIOR APPLICATION NUMBER: 60/191,078
29     :
30     : PRIOR FILING DATE: 2000-03-21
31     :
32     : PRIOR APPLICATION NUMBER: 60/206,848
33     :
34     : PRIOR FILING DATE: 2000-05-23
35     :
36     : PRIOR APPLICATION NUMBER: 60/207,727
37     :
38     : PRIOR FILING DATE: 2000-05-26
39     :
40     : PRIOR APPLICATION NUMBER: 60/230,335
41     :
42     : PRIOR FILING DATE: 2000-09-06
43     :
44     : PRIOR APPLICATION NUMBER: 60/230,347
45     :
46     : PRIOR FILING DATE: 2000-09-09
47     :
48     : PRIOR APPLICATION NUMBER: 60/242,578
49     :
50     : PRIOR FILING DATE: 2000-10-23
51     :
52     : PRIOR APPLICATION NUMBER: 60/253,625
53     :
54     : PRIOR FILING DATE: 2000-11-27
55     :
56     : PRIOR APPLICATION NUMBER: 60/257,931
57     :
58     : PRIOR FILING DATE: 2000-12-22
59     :
60     : PRIOR APPLICATION NUMBER: 60/267,636
61     :
62     : PRIOR FILING DATE: 2001-02-09
63     :
64     : PRIOR APPLICATION NUMBER: 60/269,308
65     :
66     : PRIOR FILING DATE: 2001-02-16
67     :
68     : Remaining Prior Application data removed - See File Wrapper or PALM.

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GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 27, 2005, 01:17:40 ; Search time 32.1941 Seconds  
(without alignments)  
252.740 Million cell updates/sec

Title: US-10-792-311-7

Perfect score: 519

Sequence: 1 AKKYAKKAKAYAKKAKAKA.....AKKYAKKAKAKAKAKAYEA 109

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
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2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
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4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/6C\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/6D\_COMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	519	100.0	109	US-09-405-743A-7	Sequence 7, Appl
2	519	100.0	109	US-09-816-989A-7	Sequence 7, Appl
3	312.5	60.2	86	US-09-405-743A-6	Sequence 6, Appl
4	312.5	60.2	86	US-09-816-989A-6	Sequence 6, Appl
5	289	55.7	77	US-09-405-743A-5	Sequence 5, Appl
6	289	55.7	77	US-09-816-989A-5	Sequence 5, Appl
7	228.5	44.0	66	US-09-405-743A-4	Sequence 4, Appl
8	228.5	44.0	66	US-09-816-989A-4	Sequence 4, Appl
9	196	37.8	469	US-09-489-039A-13565	Sequence 13565, A
10	180.5	34.8	56	US-09-405-743A-3	Sequence 3, Appl
11	180.5	34.8	56	US-09-816-989A-3	Sequence 3, Appl
12	179.5	34.6	100	US-08-460-890A-64	Sequence 64, Appl
13	179.5	34.6	100	US-08-167-641C-64	Sequence 64, Appl
14	179.5	34.6	100	US-08-460-971A-64	Sequence 64, Appl
15	179.5	34.6	100	US-08-462-040-64	Sequence 64, Appl
16	179	34.5	407	US-09-252-991A-29581	Sequence 29581, A
17	178	34.3	223	US-09-095-855-201	Sequence 201, App
18	178	34.3	223	US-09-205-426-201	Sequence 201, App
19	169	32.6	361	US-09-543-681A-5390	Sequence 5390, A
20	169	32.6	361	US-09-270-767-39148	Sequence 39148, A
21	164	31.6	171	US-09-270-767-54365	Sequence 54365, A
22	162.5	31.3	643	US-08-216-894-8	Sequence 8, Appl
23	162.5	31.3	643	US-09-115-746-8	Sequence 8, Appl
24	160.5	30.9	158	US-09-041-889-40	Sequence 40, Appl
25	160.5	30.9	158	US-09-417-264-40	Sequence 40, Appl
26	160.5	30.9	226	US-09-041-889-32	Sequence 32, Appl
27	160.5	30.9	226	US-09-417-264-32	Sequence 32, Appl

28	160.5	30.9	468	US-09-328-352-6321	Sequence 6321, Ap
29	160	30.8	214	US-09-328-352-5169	Sequence 5169, Ap
30	158.5	30.5	472	US-08-216-894-10	Sequence 10, Appl
31	158.5	30.5	472	US-09-115-746-10	Sequence 10, Appl
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33	158.5	30.5	564	US-09-115-746-2	Sequence 2, Appl
34	158	30.4	218	US-09-041-889-4	Sequence 4, Appl
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37	157	30.3	1156	US-09-902-540-15564	Sequence 15564, A
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41	151	29.1	316	US-09-252-991A-32957	Sequence 32957, A
42	150	28.9	1507	US-08-929-329-5	Sequence 5, Appl
43	148	28.5	207	US-09-489-039A-13743	Sequence 13743, A
44	144	27.7	399	US-09-252-991A-22853	Sequence 22853, A
45	144	27.7	434	US-08-097-830E-3	Sequence 3, Appl

#### ALIGNMENTS

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RESULT 1
US-09-405-743A-7
; Sequence 7, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 60807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 7
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
; OTHER INFORMATION: PEPTIDE
US-09-405-743A-7

Query Match      100.0%; Score 519; DB 4; Length 109;
Best Local Similarity 100.0%; Pred. No. 7.7e-37;
Matches 109; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AKKYAKKAKAYAKKAKAKKAYAKKAKAYKAAEAKKKAKKAYAKKAKKAA 60
      |||
Db      1 AKKYAKKAKAYAKKAKAKKAYAKKAKAYKAAEAKKKAKKAYAKKAKKAA 60
      |||

QY      61 YKAEAKKYAKKAKAEKKEKYAAAEAKKAKKAYKKAAYKAAKAAKAAAYEA 109
      |||
Db      61 YKAEAKKYAKKAKAEKKEKYAAAEAKKAKKAYKKAAYKAAKAAKAAAYEA 109
      |||

RESULT 2
US-09-816-989A-7
; Sequence 7, Application US/09816989A
; Patent No. 6800287
; GENERAL INFORMATION:
; APPLICANT: Gad, Alexander
; APPLICANT: Lis, Doris
; TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
; FILE REFERENCE: 2609/60807-A-PCT-US
; CURRENT APPLICATION NUMBER: US/09/816,989A
; CURRENT FILING DATE: 2001-03-23
; PRIOR APPLICATION NUMBER: 60/101,693
; PRIOR FILING DATE: 1998-09-25
; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24

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? NUMBER OF SEQ ID NOS: 7
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO: 7
? LENGTH: 109
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
? US-09-816-989A-7

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Query Match	100.0%	Score 519; DB 4;	Length 109;
Best Local Similarity	100.0%	Pred. No 7.7e-37;	
Matches 109; Conservative	0;	Mismatches	0; Gaps 0

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1 AKCTAKKAQAVAKCAAAEKCAVAKKEKAAKAAEAKKAAKAAKKEA 60	61 YKAEAKVYKAAAKAEKEVAAAEEAKCAEAAKAKVAKAAAPAAAEAAVEEA 109
1 AKCTAKKAQAVAKCAAAEKCAVAKKEKAAKAAEAKKAAKAAKKEA 60	

RESULT 3  
US-09-405-743A-6  
; Sequence 6, Application US/09405743A

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1  APPLICANT: Yeda Research and Development Co., Ltd.
2  TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
3  FILE REFERENCE: 60807-A
4  CURRENT APPLICATION NUMBER: US/09/405,743A
5  CURRENT FILING DATE: 1999-09-24
6  NUMBER OF SEQ ID NOS: 7
7  SOFTWARE: PatentIn Ver. 2.1
8  SEQ ID NO 6
9  LENGTH: 86
10 TYPE: PRT
11 ORGANISM: Artificial Sequence
12 FEATURE:
13 OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
14 OTHER INFORMATION: PEPTIDE
15 US-09-405-743A-6

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Query Match	60.2%	Score 312.5;	DB 4;	Length 86;
Best Local Similarity	72.1%;	Pred. No. 1.1e-19;		
Matches 80;	Conservative 1;	Mismatches 3;	Indels 27;	Gaps 5

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D6  
QY 61 YKGAARVVAQAARAEKEFAAAEAK - KAENA - KAVKAABAAPAAAKEAYEA 109  
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||  
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RESULT 4  
US-09-816-989A-6  
Sequence 6 Application US/09816989A

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1 GENERAL INFORMATION:
2 APPLICANT: Gad, Alexander
3 APPLICANT: Lis, Doris
4 TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKERS
5 TITLE OF INVENTION: AND FOR THERAPEUTIC USE
6 TITLE OF INVENTION:
7 FILE REFERENCE: 2609/60807-A-PCT-US
8 CURRENT APPLICATION NUMBER: US/09/816, 989A
9 CURRENT FILING DATE: 2001-03-23
10 PRIOR APPLICATION NUMBER: 60/101, 693
11 PRIOR FILING DATE: 1998-09-25
12 PRIOR APPLICATION NUMBER: PCT/US99/22402
13 PRIOR FILING DATE: 1999-09-24

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? NUMBER OF SEQ ID NOS: 7
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO: 6
? LENGTH: 86
? TYPE: PRT
? ORGANISM: Artificial Sequence
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
? OS-09-816-989A-6

```

Query Match	60.2%	Score 312.5	DB 4	Length 86
Best Local Similarity	72.1%	Pred. No. 1.1e-19		
Matches 80; Conservative	1	Mismatches 3	Indels 27	Gaps 5

[illegible]

RESULT 5  
US-09-405-743A-5  
; Sequence 5, Application US/09405743A

```

1  APPLICATION: Veda Research and Development Co., Ltd.
2  TITLE OF INVENTION: GLAUCRAMER ACETATE MOLECULAR WEIGHT MARKERS
3  FILE REFERENCE: 60807-A
4  CURRENT APPLICATION NUMBER: US/09/405,743A
5  CURRENT FILING DATE: 1999-09-24
6  NUMBER OF SEQ. ID NOS: 7
7  SOFTWARE: PatentIn Ver. 2.1
8  SEQ ID NO 5
9  LENGTH: 77
10 TYPE: PRT
11 ORGANISM: Artificial Sequence
12 FEATURE:
13 OTHER INFORMATION: Description of Artificial Sequence:
14 OTHER INFORMATION: PEPTIDE
15 US-09-405-743A-5
16 SYNTHETIC

```

Query Match	55.7%	Score	289	DB	4	Length	77
Best Local Similarity	67.0%	Pred. No.	8.8e-18				
Matches	73	Conservative	1	Mismatches	3	Indels	32
						Gaps	4

```

QY      1 AKKVAKKAEKAYAKKAKAAKEKKAYAKKEAKAYAAAEKAKKKAKAEAKKYAKEAAKAAKKEA 600
      ||||| ||||| ||||| :|| | ||||| |||||
Db      1 AKKVAKK-EKAVAKKA-----EKAAKTAEKAKYAAEAKKKA----- 360

```

QY 61 YKAARKCYAKAAKAEKKYYAAEAACKAESAARAYKAESAKAAAKAEAYEA 109  
| | | | | | | | | | | | | | | | | | | | | |  
Db 37 -KAEAKCYAKAAKAEKKYYAAEA-- --YKAESAARAAKAEAYEA 77

RESULT 6  
US-09-816-989A-5

```

: GENERAL INFORMATION:
: APPLICANT: Gad, Alexander
: APPLICANT: li9, Doris
: TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARK
: TITLE OF INVENTION: AND FOR THERAPEUTIC USE
: FILE REFERENCE: 2609/60807-A-PCT-US
: CURRENT APPLICATION NUMBER: US/09/816,989A
: CURRENT FILING DATE: 2001-03-23
: PRIOR APPLICATION NUMBER: 60/101,693
: PRIOR FILING DATE: 1998-09-25
: PRIOR APPLICATION NUMBER: PCT/US99/22402
: PRIOR FILING DATE: 1999-09-24

```









```

1 OPERATING SYSTEM: IBM P.C. DOS 5.0
2 SOFTWARE: FastSec for Windows 2.0
3 CURRENT APPLICATION DATA:
4 APPLICATION NUMBER: us/08/462,040
5 FILING DATE: June 5, 1995
6 CLASSIFICATION: 536
7 PRIOR APPLICATION DATA:
8 APPLICATION NUMBER: 08/167,641
9 FILING DATE: December 14, 1993
10 APPLICATION NUMBER: 07/855,389
11 FILING DATE: March 20, 1992
12 APPLICATION NUMBER: PCT/US93/02725
13 FILING DATE: March 19, 1993
14 ATTORNEY/AGENT INFORMATION:
15 NAME: Warburg, Richard J.
16 REGISTRATION NUMBER: 32,327
17 REFERENCE/DOCKET NUMBER: 212/078
18 TELECOMMUNICATION INFORMATION:
19 TELEPHONE: (213) 489-1600
20 TELEFAX: (213) 955-0440
21 TELEX: 67-3510
22 INFORMATION FOR SEQ ID NO: 64:
23 SEQUENCE CHARACTERISTICS:
24 LENGTH: 100 amino acids
25 TYPE: amino acid
26 STRANDEDNESS: single
27 TOPOLOGY: linear
28 MOLECULE TYPE: peptide
29 FEATURE:
30 OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
31 present or absent.
32 US-08-462-040-64

```

Query Match	34.6%	Score 179.5;	DB 3;	Length 100;
Best Local Similarity	55.0%;	Pred. No.1.6e-08;		
Matches	55;	Conservative	8;	Mismatches 34;
				Indels 3;
				Gaps 3;
QY	6	KGAEAAVAK-SAKAKKEKKAAVAKKEAKKYKAAAEAKKKAAEAKKAKAEAAAKKEAAVAAE	64	
		:           :           :           :		
Db	1	KA-PAK	59	
		:           :           :           :		
QY	65	AKRYAKA-AKAKEEYAAAEAKKAEEAAKAVYAAEAAKAAAK	103	
		:           :           :           :		
Db	60	AKA	99	
		:           :           :           :		

Search completed: July 27, 2005, 01:26:48  
Job time : 33.1941 secs